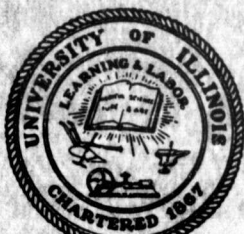


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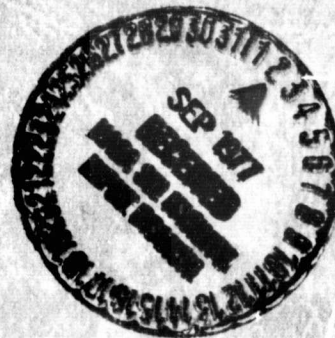
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SMALL DEFLECTION OF A CLASS OF CLAMPED THIN PLATES USING COLLOCATION

Will J. Worley



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DEPARTMENT OF THEORETICAL AND APPLIED MECHANICS
UNIVERSITY OF ILLINOIS
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THIN PLATES USING COLLOCATION

WILL J WORLEY, Ph.D.
Professor of
Theoretical and Applied Mechanics
University of Illinois
Urbana, IL 61801

July, 1977

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for
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Will J Worley, Ph.D.
Professor of Theoretical and Applied Mechanics
University of Illinois, Urbana, IL 61801

SUMMARY

The small deflection behavior is presented for clamped flat plates having a boundary defined by the equation $\left| \frac{x}{a} \right|^\alpha + \left| \frac{y}{b} \right|^\beta = 1$ where a, b, α and β as positive constants not necessarily integers, with $1 < \frac{b}{a} < 2$ and $1.6 < \alpha, \beta < 10$. The ratios of deflections to plate thickness are presented for uniform transverse loads as well as for uniform plus linearly varying transverse load. Deflections are presented at angular increments of 5 degrees and at radial increments of 0.1 of the radius.

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INTRODUCTION

1. Objective of General Project and the Relation of Current Report

The major objective of this project was the optimization of a class of two-dimensional and three-dimensional structures. The effort has been directed to the application of existing analytical techniques to the response of structural members having a range of shapes. The governing equations for these shapes were

$$\left| \frac{x}{a} \right|^{\alpha} + \left| \frac{y}{b} \right|^{\beta} = 1 \quad (1)$$

$$\left| \frac{x}{a} \right|^{\alpha} + \left| \frac{y}{b} \right|^{\beta} + \left| \frac{z}{c} \right|^{\gamma} = 1 \quad (2)$$

where a , b , c , α , β and γ are positive constants which need not be integers. Three-dimensional shapes result from revolving the line element defined by (1) about either the x -axis or the y -axis.

More general shapes result from the use of (2), while cross-sections of (2) are described by (1). Thus, plates defined by equations in the form of (1) may be used as bulk heads for structures defined by (2).

Because of the wide range of shapes which may be generated by (1) and by (2), the applications are not limited to the subjects of the current reports.

For example, the mapping reported in [6] along with an application similar to that reported in [7], could be used to determine the torsional behavior of cylindrical shafts having cross-sections defined by (1). Many other possibilities exist for structural optimization using these equations directly or as approximations to other shapes. In many cases a least square approximation may be used to achieve the parameters of (1) which best represent another function.

Earlier reports prepared under this grant [1,2,3,4,6,7]*, along with [5,8,9], treat various aspects of the application of (1) and (2) to structural members. A companion report [10], being prepared under this grant, determines the large deflection behavior for the clamped plate using the Rayleigh-Ritz method. The current report uses the collocation method, [11].

The author decided, at the inception of the project to calculate the small deflection behavior, for the clamped thin plates, by three distinct methods.

This decision was made to insure the accuracy of the results and to permit a comparison of the methods for the large range of shapes. In the process, minor errors in all three programs were detected which might have gone unnoticed had not the alternate solutions been available.

The three methods were particularly useful where deflections for limiting shapes, such as those near the diamond shape were involved.

When two different methods resulted in the same solution, the error was assumed to exist in the third method. Ultimately, all three methods achieved the same solution and thus were assumed to be correct.

The above procedure was necessary because of the large range of shapes for which comparison results did not exist in the literature. For the circle, the ellipse, the square, the rectangle and the diamond shape, adequate results existed in the literature. For the intermediate range of shapes, analytical and experimental results were not available.

2. Purpose of Report

This report is directed to the solution of the small deflection behavior

*Numbers in brackets refer to the references.

of thin flat plates clamped at the outer boundary and loaded with uniform transverse loads or with linearly varying transverse loads or a combination of uniform and linearly varying loads. Since small deflection theory was used, superposition was applicable and the combined load solution could be obtained by adding the uniform and the linear load solutions.

3. Acknowledgement

This project was sponsored by the National Aeronautics and Space Administration, Office of Advanced Research and Technology, Applied Mathematics Branch. At the time of its initiation, Dr. Raymond H. Wilson was chief.

More recently the project was sponsored by the contracts office of the George C. Marshall Space Flight Center, Alabama. The last funds were awarded in June, 1972. These funds were supplemented by grants of \$300.00 October 1970 and \$200.00 May 1971 from Chicago Bridge and Iron Company, Plainfield, Illinois, as well as \$500.00 in September 1975 from Caterpillar Tractor Company, Peoria, Illinois.

The University of Illinois Research Board made a number of contributions of funds for digital computer use during the past four years. These funds made it possible to generate the final print out for this report as well as for the report for the large deflection solution which uses the Rayleigh-Ritz method.

This investigation was part of the research of the Engineering Experiment Station of which Ross J. Martin is director.

The author wishes to thank Dr. Benedict C. Sun, as well as Messrs. Gerald R. Boyer, Thomas J. Freund, and Walter E. Lohmann for assistance with various phases of this project.

THEORY

The transverse deflection, W , of thin camped plates Fig. 1 of constant flexural rigidity, D , subjected to transverse load intensity, q , is governed by the differential equation

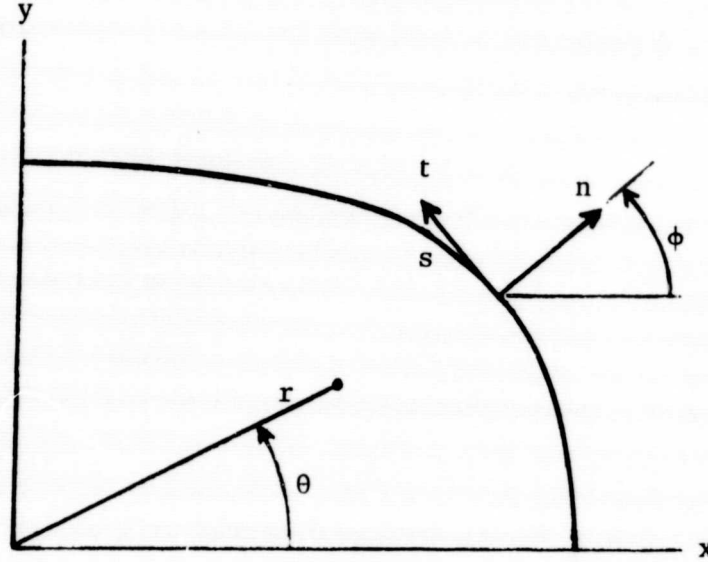


Fig. 1 Coordinate Geometry

$$\nabla^4 W(r, \theta) = q(r, \theta)/D \quad (3)$$

where polar coordinates, r and θ , are used to define the location of the deflection point as well as the load intensity.

The complementary solution to (3) is given by the trigonometric series, see Conway [11],

$$W_c = R_0 + \sum_{m=1}^{\infty} R_m \cos m\theta + \sum_{m=1}^{\infty} R'_m \sin m\theta \quad (4)$$

where

$$\begin{aligned} m = 0, R_0 &= A_0 + B_0 r^2 + C_0 \log r + D_0 r^2 \log r \\ m = 1, R_1 &= A_1 r + B_1 r^3 + C_1 r^{-1} + D_1 r \log r \\ m > 1, R_m &= A_m r^m + B_m r^{-m} + C_m r^{m+2} + D_m r^{-m+2} \end{aligned} \quad (5)$$

Equation (1) may be expressed in polar coordinates as

$$F_{\alpha\beta}(r,\theta) = \left| \frac{r \cos\theta}{a} \right|^\alpha + \left| \frac{r \sin\theta}{b} \right|^\beta - 1 = 0 \quad (6)$$

Since $F_{\alpha\beta}$ is symmetrical with respect to the x and the y axes, the lines $\theta = 0^\circ$ and $\theta = 90^\circ$, only the first quadrant need be considered for the plate deflection analysis. Because superposition is valid for small deflections, it is possible to solve for the deflection due to linear load as well as for the uniform load in the first quadrant.

The loading $q(r,\theta)$ is assumed to be symmetric with respect to the y -axis and to have the form

$$q(y) = q_\ell y + q_u \quad (7)$$

or in polar form

$$q(r,\theta) = q_\ell r \sin\theta + q_u \quad (8)$$

where q_ℓ and q_u are constants which define the linear and the uniform components of the loading .

1. Uniformly Load Solution

In solving for the deflections, the loads (7) are treated separately. When the uniform component is considered, (4) will exhibit solutions with identical deflections at (r_1, θ_1) and $(r_1, -\theta_1)$ and since

$$\sin(-m\theta) = -\sin(m\theta), \quad m = 1, 2, \dots \quad (9)$$

these terms will cancel and the deflection will contain only a constant term and cosine terms. The deflections of points (r_1, θ_1) and $(r_1, \pi - \theta_1)$ will be

the same but $\cos[m(\pi-\theta_1)] = -\cos(m\theta_1)$, $m = 1, 3, 5, \dots$. (10)

Hence terms containing $\cos(m\theta)$ where m is odd must be omitted. Thus

(4) becomes

$$W_{uc}(r, \theta) = R_0 + \sum_{m=1,3,\dots} R_m \cos m\theta \quad (11)$$

Since there is a center deflection for uniform load, (5) reduces to

$$R_0 = A_0 \quad (12)$$

$$R_m = A_m r^m + B_m r^{m+2}, \quad m = 2, 4, 6, \dots$$

Now define the constant terms as AA_1 and substitute (12) into (11) to

obtain the complementary solution for (3) with uniform loading as

$$W_{uc}(r, \theta) = AA_1 + AA_2 r^2 + \sum_{i=2}^{\infty} [AA_{2i-1} r^{2i-2} \cos(2i-2)\theta + AA_{2i} r^{2i} \cos(2i-2)\theta] \quad (13)$$

A particular solution of (1) is given by

$$W_{up}(r, \theta) = \frac{q_u b^4/D}{24(b/a)^4 + 16(b/a)^2 + 24} \left[1 - \frac{r^2}{a^2} \cos^2 \theta - \frac{r^2}{b^2} \sin^2 \theta \right]^2 \quad (14)$$

This is the solution for the clamped uniformly loaded elliptical plate.

Defining

$$CFE1 = \frac{q_u b^4/D}{24(b/a)^4 + 16(b/a)^2 + 24} \quad (15)$$

the deflection (14) becomes

$$W_{up}(r, \theta) = CFE1 \left[1 - r^2 \left(\frac{\cos^2 \theta}{a^2} + \frac{\sin^2 \theta}{b^2} \right) \right]^2 \quad (16)$$

The total solution of (3) then becomes

$$W_u(r, \theta) = W_{uc}(r, \theta) + W_{up}(r, \theta) \quad (17)$$

The complementary solution (13) will be truncated and solved for a finite number of coefficients AA_1 .

For clamped thin plates, the following conditions must be satisfied at any point (r_B, θ_B) on the plate boundary:

$$W(r_B, \theta_B) = 0 \quad (18)$$

$$\left. \frac{\partial W}{\partial n} \right|_{r_B, \theta_B} = 0 \quad (19)$$

Consider N evenly spaced points along the first quadrant of the plate boundary. Application of (18) and (19) to (17) yields $2N$ linear homogeneous algebraic equations in $2N$ unknowns $AA_1, AA_2, \dots, AA_{2N}$.

Condition (18) yields N equations of the form

$$W_{uc}(r_B, \theta_B) = -W_{up}(r_B, \theta_B) \quad (20)$$

Condition (19) may be evaluated from

$$\frac{\partial W_u(r, \theta)}{\partial n} = \left(\frac{\partial W_{uc}}{\partial r} + \frac{\partial W_{up}}{\partial r} \right) \frac{\partial r}{\partial n} + \left(\frac{\partial W_{uc}}{\partial \theta} + \frac{\partial W_{up}}{\partial \theta} \right) \frac{\partial \theta}{\partial n} \quad (21)$$

Since the r and θ may be expressed terms of x and y

$$\left. \begin{aligned} \frac{\partial r}{\partial n} &= \frac{\partial r}{\partial x} \frac{\partial x}{\partial n} + \frac{\partial r}{\partial y} \frac{\partial y}{\partial n} \\ \frac{\partial \theta}{\partial n} &= \frac{\partial \theta}{\partial x} \frac{\partial x}{\partial n} + \frac{\partial \theta}{\partial y} \frac{\partial y}{\partial n} \end{aligned} \right\} \quad (22)$$

From Fig. 1

$$\left. \begin{aligned} x &= n \cos\phi - t \sin\phi \\ y &= n \sin\phi + t \cos\phi \end{aligned} \right\} \quad (23)$$

Solving for n and t

$$\left. \begin{aligned} n &= x \cos\phi + y \sin\phi \\ t &= -x \sin\phi + y \cos\phi \end{aligned} \right\} \quad (24)$$

Partial derivatives of (23) yield

$$\left. \begin{aligned} \frac{\partial x}{\partial n} &= \cos\phi, \quad \frac{\partial y}{\partial n} = \sin\phi \\ \frac{\partial x}{\partial t} &= -\sin\phi, \quad \frac{\partial y}{\partial t} = \cos\phi \end{aligned} \right\} \quad (25)$$

Polar coordinates $r = (x^2 + y^2)^{\frac{1}{2}}$ and $\theta = \tan^{-1}(y/x)$ may be differentiated to obtain

$$\left. \begin{aligned} \frac{\partial r}{\partial x} &= \cos\theta, \quad \frac{\partial r}{\partial y} = \sin\theta \\ \frac{\partial \theta}{\partial x} &= -\frac{1}{r} \sin\theta, \quad \frac{\partial \theta}{\partial y} = \frac{1}{r} \cos\theta \end{aligned} \right\} \quad (26)$$

The differential arc length, is related to x, y and ϕ as

$$(ds)^2 = (dx)^2 + (dy)^2 \text{ or } \left(\frac{dx}{ds}\right)^2 = \frac{1}{1 + \left(\frac{dy}{dx}\right)^2}$$

$$\text{and } \frac{dx}{ds} = -\sin\phi$$

Thus

$$\sin\phi = [1 + (dy/dx)^2]^{-\frac{1}{2}} \quad (27)$$

and from (6)

$$\frac{dy}{dx} = -\frac{b}{a} \frac{\alpha}{\beta} \left| \frac{r \cos\theta}{a} \right|^{\alpha-1} / \left| \frac{r \sin\theta}{b} \right|^{\beta-1} \quad (28)$$

From (25) and (26), 22 may be expressed as

$$\left. \begin{aligned} \frac{\partial r}{\partial n} &= \cos\theta \cos\phi + \sin\theta \sin\phi \\ \frac{\partial \theta}{\partial n} &= -\frac{1}{r} (\sin\theta \cos\phi - \cos\theta \sin\phi) \end{aligned} \right\} \quad (29)$$

where $\sin\phi$ is defined by (27)

For the evaluation of (19), the following relations are evaluated using (16) and (13)

$$\frac{\partial W_{up}}{\partial \theta} = 4(CFE1) r^2 (\sin\theta \cos\theta) \left(1 - \frac{1}{b^2}\right) \left[1 - r^2 \left(\frac{\cos^2\theta}{a^2} + \frac{\sin^2\theta}{b^2}\right)\right] \quad (30)$$

$$\frac{\partial W_{up}}{\partial r} = -4(CFE1) r \left(\frac{\cos^2\theta}{a^2} + \frac{\sin^2\theta}{b^2}\right) \left[1 - r^2 \left(\frac{\cos^2\theta}{a^2} + \frac{\sin^2\theta}{b^2}\right)\right] \quad (31)$$

$$\frac{\partial W_{uc}}{\partial \theta} = - \sum_{i=2}^N \left\{ AA_{2i-1} r^{2i-2} (2i-2) \sin(2i-2)\theta + AA_{2i} r^{2i} (2i-2) \sin(2i-2)\theta \right\} \quad (32)$$

$$\begin{aligned} \frac{\partial W_{uc}}{\partial r} &= AA_2 2r + \sum_{i=2}^N \left\{ AA_{2i-1} (2i-2) r^{2i-3} \cos(2i-2)\theta + \right. \\ &\quad \left. + AA_{2i} (2i) r^{2i-1} \cos(2i-2)\theta \right\} \end{aligned} \quad (33)$$

Equations (27) through (33) permit the evaluation of (21) and thus obtain N additional equations from (19) in terms of the series coefficients AA_i . These equations are of the form

$$\frac{\partial W_{uc}}{\partial r} \frac{\partial r}{\partial n} + \frac{\partial W_{uc}}{\partial \theta} \frac{\partial \theta}{\partial n} = - \left(\frac{\partial W_{up}}{\partial r} \frac{\partial r}{\partial n} + \frac{\partial W_{up}}{\partial \theta} \frac{\partial \theta}{\partial n} \right) \quad (34)$$

where the N district equations are obtained by evaluation at each one of the N boundary points (r_B, θ_B) . Solving (20) and (34) simultaneously for the series coefficients AA_i , (17) may be evaluated and thus the

deflection at any point (r, θ) in the plate may be determined for the uniform component of the load.

2. Linear Load Solution

For the linearly varying load which is assumed downward for positive values of y and upward for negative values of y , the complementary solution of (3) yields first and fourth quadrant deflections of equal magnitude and of opposite sign. Because the load varies only in the y -direction, deflections in the second quadrant are identical with those in the first while those in the third and fourth quadrants are identical.

Since $\cos(m\theta_1) = \cos(-m\theta_1)$ all cosine terms are excluded. Also, $\sin(2\theta_1) = 2 \sin\theta_1 \cos\theta_1 = -\sin[2(-\theta_1 + \pi)]$, thus $\sin(2\theta)$ must be excluded and all terms of the form $\sin(m\theta)$, $m = 2, 4, 6, \dots$, must be excluded. The remaining coefficients are

$$R_m = A_m r^m + B_m r^{m+2}, \quad m = 1, 3, 5, \dots$$

Note that $R_0 = 0$ because the center deflection due to the linear load component is zero. Designating all coefficients AA_i , the complementary solution for linear loading becomes

$$W_{lc} = \sum_{i=1}^{\infty} \left\{ [AA_{2i-1} r^{2i-1} + AA_{2i} r^{2i+1}] \sin(2i-1)\theta \right\} \quad (35)$$

A particular solution to (3) is

$$W_{lp} = \frac{q_l b^4 r \sin\theta}{24D[(b/a)^4 + 2(b/a)^2 + 5]} \left[1 - r^2 \left(\frac{\cos^2\theta}{a^2} + \frac{\sin^2\theta}{b^2} \right) \right]^2 \quad (36)$$

which is the exact solution for a clamped, linearly loaded elliptical plate, see page 312 of [12]. Defining

$$CFE2 = \frac{q_\ell b^4/D}{24(b/a)^4 + 48(b/a)^2 + 120} \quad (37)$$

(36) becomes

$$W_{\ell p}(r, \theta) = (CFE2) r \sin \theta \left[1 - r^2 \left(\frac{\cos^2 \theta}{a^2} + \frac{\sin^2 \theta}{b^2} \right) \right]^2 \quad (38)$$

The complete solution is thus

$$W_\ell(r, \theta) = W_{\ell c}(r, \theta) + W_{\ell p}(r, \theta) \quad (39)$$

Equation (35) is now truncated to obtain the AA_i coefficients, as described for the uniform load. The boundary conditions (18) and (19) are the same as for the uniform load and (22) through (29) are valid. From (18), N equations of the form

$$W_{\ell c}(r_B, \theta_B) = -W_{\ell p}(r_B, \theta_B) \quad (40)$$

are obtained. Conditions (19) require the following derivatives

$$\begin{aligned} \frac{\partial W_{\ell p}}{\partial \theta} = & (CFE2) r \left\{ \cos \theta \left[1 - r^2 \left(\frac{\cos^2 \theta}{a^2} + \frac{\sin^2 \theta}{b^2} \right) \right]^2 \right. \\ & \left. + 2 \sin \theta \left[1 - r^2 \left(\frac{\cos^2 \theta}{a^2} + \frac{\sin^2 \theta}{b^2} \right) \right] \left[-r^2 \left(-\frac{2 \cos \theta \sin \theta}{a^2} + \frac{2 \sin \theta \cos \theta}{b^2} \right) \right] \right\} \end{aligned} \quad (41)$$

$$\begin{aligned} \frac{\partial W_{\ell p}}{\partial r} = & (CFE2) \sin \theta \left\{ \left[1 - r^2 \left(\frac{\cos^2 \theta}{a^2} + \frac{\sin^2 \theta}{b^2} \right) \right]^2 + 2r \left[1 - r^2 \left(\frac{\cos^2 \theta}{a^2} + \frac{\sin^2 \theta}{b^2} \right) \right] \right. \\ & \left. \left[-2r \left(\frac{\cos^2 \theta}{a^2} + \frac{\sin^2 \theta}{b^2} \right) \right] \right\} \end{aligned} \quad (42)$$

$$\frac{\partial w_{lc}}{\partial \theta} = \sum_{i=1}^N \left\{ \left[AA_{2i-1} r^{2i-1} + AA_{2i} r^{2i+1} \right] (2i-1) \cos(2i-1)\theta \right\} \quad (43)$$

$$\frac{\partial w_{lc}}{\partial r} = \sum_{i=1}^N \left\{ \left[(2i-1) AA_{2i-1} r^{2i-2} + (2i+1) AA_{2i} r^{2i} \right] \sin(2i-1)\theta \right\} \quad (44)$$

Thus N additional equations are obtained

$$\frac{\partial w_{lc}}{\partial r} \frac{\partial r}{\partial n} + \frac{\partial w_{lc}}{\partial \theta} \frac{\partial \theta}{\partial n} = - \left[\frac{\partial w_{lp}}{\partial r} \frac{\partial r}{\partial n} + \frac{\partial w_{lp}}{\partial \theta} \frac{\partial \theta}{\partial n} \right] \quad (45)$$

Solving (40) and (45) for the AA_i 's, the deflection at any point due to a linearly varying load may be determined using (39).

Superposition of solutions gives the total deflection due to the loading described by (7), as

$$W(r, \theta) = W_{uc}(r, \theta) + W_{up}(r, \theta) + W_{lc}(r, \theta) + W_{lp}(r, \theta) \quad (46)$$

3. Selection of Collocation Points

Even distribution of the collocation points along the boundary, while desirable, requires the computation of arc length which increases computation time. The alternate approach, described below, is used for this reason.

First, locate the point on the plate boundary $f(r_B, \theta_B)$ for which the tangent is $(-b/a)$. Define a chord with end points $(b, \pi/2)$ and $f(r_B, \theta_B)$ and a chord with end points $f(r_B, \theta_B)$ and $(a, 0)$. Divide each chord into $N/2$ evenly distributed points. Determine N angles θ_B , corresponding to the N points, and use a root finding routine to locate the value r_B which satisfies (6) at the specified angle. If N is odd, the point $f(r_B, \theta_B)$ becomes a collocation point.

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*Numbers following title indicate year of publication and number of pages.

⁺Number to be assigned, report submitted August, 1977.

COMPUTER PROGRAM COMMENTS

The computer program listing, which follows, contains necessary definitions as comment cards. In addition to the main program there are seven subroutines. The program presents the output data for angles at 5 degree increments and at radii ranging from the center toward the edge of the plate in increments of radius ranging from one tenth to nine tenths.

The deflections, which are ratios of deflections to plate thickness, are obtained for uniform load as well as for uniform plus linear load. The uniform load component is 0.002 while the linear load component is 0.004. The value of Poisson's ratio is 0.3.

The program contains two options, one designated by $RORN = 0.0$, which determines the partial derivatives of the deflection function with respect to a normal vector at the boundary, and the other designated by $RORN = 1.0$ which determines the partial derivatives of the deflection function with respect to the radial vector from the plate center to a point on the boundary. This latter derivative, while requiring less computer time is also less accurate. All of the reported runs were generated using $RORN = 0.0$ to achieve higher accuracy.

COMPUTER PROGRAM LISTING

```

C INPUT DATA DEFINITIONS
C ALPHA AND BETA DETERMINE THE PLATE SHAPE ACCORDING TO
C F(R,THETA) = (R*CSIN(THETA)/A)**ALPHA+
C              (R*CSIN(THETA)/B)**B-1
C WHERE ALPHA,BETAS GREATER THAN OR EQUAL TO ONE
C NOTE IF: ALPHA = BETA = 1 THE PLATE IS A RHOMBUS
C           ALPHA = BETA = 2 THE PLATE IS AN ELLIPSE
C           ALPHA = BETA = 10 APPROXIMATES A RECTANGLE
C FORMULA FOR THE DEFLECTION FUNCTION:
C XU = X INTERCEPT OF THE PLATE BOUNDARY
C XV = Y INTERCEPT OF THE PLATE BOUNDARY
C 10**(-38) < B**2N < 10**(38) IN THE DEFLECTION FUNCTION
C FORMULA, N IS THE NUMBER OF COLLOCATION POINTS
C QULOAD = MAGNITUDE OF THE UNIFORM COMPONENT OF THE LOAD
C QLLLOAD = SLOPE OF THE LINEARLY VARYING COMPONENT OF THE LOAD
C RORN = INDEX CONTROLLING THE SOLUTION ACCORDING TO THE
C FOLLOWING BOUNDARY CONDITIONS:
C RORN = 0.0 DENOTES USE OF THE PARTIAL OF W WITH
C           RESPECT TO THE NORMAL VECTOR
C RORN = 1.0 DENOTES USE OF THE PARTIAL OF W WITH
C           RESPECT TO THE RADIAL VECTOR
C N = NUMBER OF COLLOCATION POINTS, WHERE N IS LESS THAN OR
C     EQUAL TO 19
C IWOT = INDEX CONTROLLING OUTPUT FORMAT
C       TABULA

C OUTPUT DEFLECTIONS (OUTPUT) IWCT=1,2,3,4,
C DEFLECTIONS (TABULA) IWCT= 2,3, 6,7,
C SERIES COEF. (TABULA) IWCT= 3,4, 7,8
C -----
C SERIES-
C CCEF.
C OUTPUT PRINTS UNIFORM AND LINEAR CASES, TABULA PRINTS COMBINED CASE.
C PR = POISSON'S RATIO
C E = MODULUS OF ELASTICITY
C H = CONSTANT PLATE THICKNESS

C SAMPLE DATA DECK FOR COLLOCATION PROGRAM
C -----
C COLUMNS CONTAINING VARIABLE VALUE
C 1-5 6-10 11-15 16-20 21-25 26-30 31-35 36-40 41-43 44-48 49 54 63
C -53 -62 -74
C ALPHA BETA XU XV QULOAD QLLLOAD RORN N IWOT PUNCH PR E H
C F5.2 F5.2 F5.2 F5.2 F5.3 F5.3 F5.2 15 13 F5.2 F5.2 E9.4
C IMPLICIT REAL*8 (A-H,O-Z)
C EXTERNAL FUNC
C DIMENSION X(11), S(2), SSIN(38), FCP000(38), SINT(19), CUST(19),
C 1 R(39), DADN(19), DRDN(19), RR(19), AA(76), RSTO(19),
C 2 ASTO(19), ANG(19), THETA(19), Z(11,38), W(37,11),
C 3 WC(37,11), D(38,39), A(37,34)
C COMMON ALPHA,BETA,P,SSI,CCC,QULOAD,QLLLOAD,RR,W,PUNCH,AA,RSTO,
C 1 ASTO,D,ANG,WC,THETA,XU,XV,ICT,N,IWOT
C DEFLECTION OF THE PLATE BY COLLOCATION METHOD
C FOR LINEAR LOADING
C THE X(I) ARE DEFLECTION EVALUATION STATIONS ALONG
C A GIVEN RADIUS RR(I)
C XU STANDS FOR INTERCEPT OF X-AXIS BY PLATE BOUNDARY
C XV STANDS FOR INTERCEPT OF Y-AXIS BY PLATE BOUNDARY
C QU AND QL DETERMINE THE UNIFORM AND LINEAR LOADING
C N IS THE NUMBER OF COLLOCATION POINTS
C X(1) = 0.000
C DC 10 I = 2,10
C 10 X(1) = X(I-1)+0.100
C X(11) = 1.00
C ICT = 0
C CCONV = .17453252519943C-01
C 15 READ(5,1000,END=345) ALPHA,BETA,XU,XV,QULOAD,QLLLOAD,RORN,
C N,IWOT,PUNCH,PR,E,H
C 1000 FORMAT(4F5.2,2F5.3,F5.2,15,I3,2F5.2,E9.4,E12.5)
C QU = QULOAD*12.00*(1.00-PR**2)/(E*H**3)
C QL = QLLLOAD*12.00*(1.00-PR**2)/(E*H**3)
C LCRU = 2
C IF (QU)25,20,25
C 20 LOKU = 4
C GO TO 35
C IF (QL)35,30,35
C 25 LCRU = 1
C 35 XV2 = XV*XV
C XV4 = XV2*XV2
C XU2 = XU*XU
C XU4 = XU2*XU2
C P = XV/XU
C PPP = -P*ALPHA/BETA
C AM1 = ALPHA-1.00
C BM1 = BETA-1.00
C CFE1 = QU*XV4/(24.00*XV4/XU+16.00*XV2/XU2+24.00)
C CFE2 = QL*XV4/(24.00*XV4/XU+48.00*XV2/XU2+120.00)
C DETERMINE ANGLES OF COLLOCATION POINTS
C CALL ANGLE(XU,XV)
C NOTE THAT XU EQUAL TO ZERO INDICATES TO MAIN - NO ROUT

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38 IF (XU) 38,15,38
RR(N) = XV
NN1 = N-1
NN = 2*N
NNP1 = NN+1
NNM1 = NN-1
NNM2 = NN-2
XEND = DSCR(XV*XV+XL*XU)
XSTART = XU*XV/XEND
C COMPUTATION OF ELEMENTS FOR MATRIX EQUATION(S) OBTAINED
C FROM BOUNDARY CONDITIONS
C DETERMINATION OF RACII RR(I) OF COLLOCATION POINTS
C AND PARTIAL DERIVATIVES
DC 80 I = 1,N
T = THETA(I)
SINT(I) = DSIN(T)
CCST(I) = DCCS(T)
SSI = SINT(I)
CCO = CCST(I)
40 IF (I-N) 45,60,60
45 CCNTINUE
CALL REGFA2(XSTART,XEND,.02D0,S,K,C.000001D0,FUNCK)
IF (K-1) 50,55,5C
50 WRITE (6,1C05) ALPHA,BETA,ANG(I)
1005 FORMAT ('0','NG NGUT FOR',2X,'ALPHA = ',F5.2,2X,'BETA = ',F5.2,
1 AT ANGLE = ',D13.6,/)
GO TO 15
55 RR(I) = S(I)
C COORDINATES OF COLLOCATION POINTS STORED
60 RSTC(I) = RK(I)
ASTC(I) = ANG(I)
XXX = RR(I)*CCST(I)/XU
YYY = RR(I)*SINT(I)/XV
IF (I-1) 65,70,65
65 DERIV = PPP*(DAS(XXX))*AM1/(CAHS(YYY))*RM1
IF (DERIV .LE. 1.0-30) DERIV=0.00
SINPHI = 1.00/DSCR(1.00+DERIV**2)
GO TO 75
70 SINPHI = 0.00
CCSPHI = DSCR(1.00-SINPHI**2)
DADN(I) = (-SINT(I)*COSPHI+CCST(I)*SINPHI)/RR(I)
80 DRDN(I) = CCST(I)*CCSPHI+SINT(I)*SINPHI
85 DO 165 I = 1,N
T = THETA(I)
R(I) = RR(I)
DO 90 J = 2,NNP1
90 R(J) = R(J-1)*RR(I)
RS2C2 = 1.00-R(2)*(SINT(I)*SINT(I)/XV2+COST(I)*COST(I)/XU2)
GO TO (95,130,95,130),LCRU
95 DO 100 K = 2,NNM2,2
AK = K
SSIN(K) = DSIN(T*AK)
DCCSPHI(K) = DCCS(T*AK)
C COMPUTATION OF TERMS FOR HOMOGENEOUS SOLUTION TO UNIFORMLY
C LOADED PLATE
D(I,1) = 1.00
D(I,2) = R(2)
DO 105 L = 2,N
LL = 2*L
LLM1 = LL-1
LLM2 = LL-2
D(I,LLM1) = R(LLM2)*FCP000(LLM2)
105 D(I,LL) = R(LL)*FCP000(LLM2)
C PARTICULAR SOLUTION FOR A UNIFORMLY LOADED ELLIPTIC PLATE
D(I,NNP1) = -CFE1*RS2C2*RS2C2
IA = 1*N
C COMPUTATION FOR DERIVATIVES OF UNIFORM LOAD
C HOMOGENEOUS SOLUTION
IF (RORN) 110,110,120
110 D(IA,1) = 0.00
D(IA,2) = R(1)*DRDN(I)*2.00
DO 115 L = 2,N
LL = 2*L
ALL = LL
LLM1 = LL-1
LLM2 = LL-2
LLM3 = LL-3
ALLM2 = LLM2
D(IA,LLM1) = R(LLM3)*FCP000(LLM2)*ALLM2*DRDN(I)-ALLM2*R(LLM2)*
SSIN(LLM2)*DADN(I)
115 D(IA,LL) = R(LLM1)*FCP000(LLM2)*ALL*DRDN(I)-ALLM2*R(LL)*
SSIN(LLM2)*DADN(I)
C DERIVATIVE OF UNIFORM LOAD PARTICULAR SOLUTION
D(IA,NNP1) = 4.*CFE1*R(1)*RS2C2*((1.-RS2C2)/R(2))*DRDN(I)-
R(1)*CCST(I)*SINT(I)*(1.00/XU2-1.00/XV2)*DADN(I)
GO TO 165
120 D(IA,1) = 0.000
D(IA,2) = 2.00*R(1)
DC 125 I = 2,N
LL = 2*L
ALL = LL
LLM1 = LL-1
LLM2 = LL-2
ALLM2 = LLM2
LLM3 = LL-3
D(IA,LLM1) = ALLM2*R(LLM3)*FCP000(LLM2)

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125 D(I,A,LL) = ALL*(LLM1)*FCPC00(LLM2)
D(I,A,NNP1) = 4.00*CFE1*R(1)*((1.00-RS2C2)/R(2))*RS2C2
GO TO 165
130 DC 135 K = 1,NNM1,2
AK = K
SSIN(K) = DSIN(T*AK)
FCPC00(K) = DCOS(T*AK)
C COMPUTATION OF TERMS OF LINEAR LCAD HOMOGENEOUS SOLUTION
DC 140 L = 1,N
LL = L*2
LLM1 = LL-1
LLP1 = LL+1
D(I,LLM1) = R(LLM1)*SSIN(LLM1)
D(I,LL) = R(LLP1)*SSIN(LLP1)
140 D(I,LL) = R(LLP1)*SSIN(LLP1)
C PARTICULAR SOLUTION FOR LINEARLY LOADED ELLIPTIC PLATE
D(I,NNP1) = -CFE2*K(1)*SINT(1)*RS2C2*RS2C2
IA = 1+N
C CONTROL FOR SOLUTION USING THE PARTIAL CF W WITH RESPECT
C TO THE NORMAL VECTOR FOR RCEN = ZERO OR WITH RESPECT
C TO THE RADIAL VECTOR FOR RCEN = ONE
IF (RCEN)145,145,155
C COMPUTATION OF DERIVATIVES - LINEAR LOAD HOMOGENEOUS SOLUTION
145 D(I,A,1) = SINT(1)*ORDN(1)*R(1)*CCST(1)*DADN(1)
D(I,A,2) = 3.00*R(2)*SINT(1)*ORDN(1)*R(3)*COST(1)*DADN(1)
DC 150 L = 2,N
LL = L*2
LLM1 = LL-1
LLM2 = LL-2
LLP1 = LL+1
ALLM1 = LLM1
ALLP1 = LLP1
D(I,A,LLM1) = ALLM1*(R(LLM2)*SSIN(LLM1)*ORDN(1)+R(LLM1)*
FCPC00(LLM1)*DADN(1))
150 D(I,A,LL) = FCPC00(LLM1)*SSIN(LLM1)*ORDN(1)+ALLM1*R(LLP1)*
FCPC00(LLM1)*DADN(1)
C DERIVATIVE OF LINEAR LCAD PARTICULAR SOLUTION
D(I,A,NNP1) = -CFE2*RS2C2*(SINT(1)*(RS2C2+4.00*(RS2C2-1.00))*
ORDN(1)+R(1)*CCST(1)*(RS2C2+4.00*R(2)*
SINT(1)*SINT(1)*(1.00/XU2-1.00/XV2))*DADN(1))
GO TO 165
155 D(I,A,1) = SINT(1)
D(I,A,2) = 3.00*R(2)*SINT(1)
DC 160 L = 2,N
LL = L*2
ALL = LL
LLM1 = LL-1
LLM2 = LL-2
LLP1 = LL+1
ALLP1 = LLP1
D(I,A,LLM1) = ALLM1*R(LLM2)*SSIN(LLM1)
D(I,A,LL) = ALLP1*R(LLP1)*SSIN(LLP1)
160 D(I,A,LL) = ALLP1*R(LLP1)*SSIN(LLP1)
D(I,A,NNP1) = -CFE2*SINT(1)*(RS2C2*RS2C2-4.00*R(1)*RS2C2*R(1)*
((1.00-RS2C2)/R(2)))
165 CONTINUE
C SOLUTION OF MATRIX EQUATION FOR SERIES COEFFICIENTS AA(I)
170 CALL SIMEQ(MISCUE)
IF (MISCUE-1)180,180,175
175 WRITE (6,1010)
1010 FORMAT (//,5X,'THE SOLUTION IS SINGULAR ',//)
GO TO 15
180 GC TO (200,185,200,185),LCRU
185 DO 190 I = 1,NN
J = I+1
AA(J) = AA(I)
190 AA(I) = 0.000
GO TO (200,195,200,200),LCRU
195 LCRU = 3
GC TO 85
C DETERMINATION OF RADII R(I) AND ANGLES THETA(I)
C FOR DEFLECTION EVALUATION
200 RR(19) = XV
RR(1) = XU
ANG(1) = 0.000
THETA(1) = 0.000
DC 205 I = 1,18
J = I+1
ANG(J) = ANG(I)+5.000
THETA(J) = ANG(J)*CCAV
205 THETA(19) = 1.570796326794897
THETA(1) = NEW USE CF COST(1)
C NOTE THE
SINT(1) = 0.000
SINT(19) = 1.000
CCST(1) = 1.000/XU2
COST(19) = 1.000/XV2
DC 215 I = 2,18
SSI = DSIN(THETA(I))
CCO = DCOS(THETA(I))
SINT(I) = SSI
COST(I) = CCO
COST(I) = CCO*CCC/XU2*SSI*SSI/XV2
CALL REGFA2(XSTART,XEND,.0200,S,K,0.000000100,FUNCH)
IF (K-1)210,215,210
210 WRITE (6,1015) ALPHA,BETA,ANG(I)
1015 FORMAT (0,'NO ROOT FOR',2X,'ALPHA = ',F5.2,'BETA = ',F5.2,
'AT ANGLE = ',D13.6,//)
GC TO 15

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COLL0192
COLL0193
COLL0194
COLL0195
COLL0196
COLL0197
COLL0198
COLL0199
COLL0200
COLL0201
COLL0202
COLL0203
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COLL0260
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COLL0280
COLL0281
COLL0282
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COLL0285
COLL0286
COLL0287


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215 RR(I) = S(I)
CC 255 I = 1,19
T = THETA(I)
R(I) = RR(I)
DC 220 J = 2,NNP1
220 R(J) = R(J-1)*RR(I)
GO TO (225,225,225,240),LORU
225 DC 230 K = 2,NNM2,2
AK = K
230 FCP000(K) = DCOS(T*AK)
C SERIES TERMS FOR UNIFORM LOAD DEFLECTION
C (EXCLUDING AA(I) AND Z(I,J))
D(I,1) = 1.00
D(I,2) = R(2)
DO 235 L = 2,N
LL = L*2
LLM1 = LL-1
LLM2 = LL-2
D(I,LLM1) = R(LLM2)*FCP000(LLM2)
235 D(I,LL) = R(LL)*FCP000(LLM2)
GC TO (255,240,240,240),LORU
240 IA = 1+19
DO 245 K = 1,NNM1,2
AK = K
245 SSIN(K) = DSIN(T*AK)
C SERIES TERMS FOR LINEAR LOAD DEFLECTIONS
C (EXCLUDING AA(I) AND Z(I,J))
DU 250 L = 1,N
LL = L*2
LLM1 = LL-1
LLP1 = LL+1
D(IA,LLM1) = R(LLM1)*SSIN(LLM1)
250 D(IA,LL) = R(LLP1)*SSIN(LLP1)
255 CCNTINUE
GC TC (260,260,260,280),LORU
260 DO 265 J = 1,11
Z(J,1) = 1.0
Z(J,2) = X(J)*X(J)
DO 265 K = 3,NNM1,2
Z(J,K) = Z(J,K-1)
265 Z(J,K+1) = Z(J,K)*Z(J,2)
C DEFLECTIONS DUE TO UNIFORM LOAD
DC 275 I = 1,19
L = 20-1
M = 18+1
DC 275 J = 1,11
C UNIFORM LOAD PARTICULAR SOLUTION
W(L,J) = CFE1*(1.000-RR(I)*RR(I)*Z(J,2)*CCST(I))*2
DO 270 K = 1,NN
C UNIFORM LOAD HOMOGENEOUS SOLUTION
270 W(L,J) = W(L,J)+AA(K)*D(I,K)*Z(J,K)
275 W(M,J) = W(L,J)
GO TO (320,290,290,280),LORU
280 DO 285 I = 1,17
DC 285 J = 1,11
285 W(I,J) = 0.000
290 DO 295 J = 1,11
Z(J,1) = X(J)
X2 = X(J)*X(J)
Z(J,2) = X(J)*X2
DO 295 K = 3,NNM1,2
Z(J,K) = Z(J,K-1)
295 Z(J,K+1) = Z(J,K)*X2
C DEFLECTIONS DUE TO LINEAR LOAD
DO 305 I=2,19
M=39-I
IA=1+19
DC 305 J = 1,11
C LINEAR LOAD PARTICULAR SOLUTION
SUM = CFE2*RR(I)*X(J)*SINT(I)*(1.000-RR(I)*RR(I)*
1 X(J)*X(J)*CCST(I))*2
DO 300 K = 1,NN
KN = K+NN
C LINEAR LOAD HOMOGENEOUS SOLUTION
300 SUM = SUM+AA(KN)*D(IA,K)*Z(J,K)
305 W(M,J)=SUM
DC 310 I=1,37
DO 310 J=1,11
310 W(I,J)=W(I,J)/H
GC TO(315,315,315,320,320,320,320), I=CT
315 CALL OUTPUT
DC 325 I=1,18
II=1+19
MI=38-I
DC 325 J=1,11
WC(I,J)=W(I,J)+W(II,J)
325 WC(MI,J)=W(I,J)-W(II,J)
DC 330 J=1,11
330 WC(19,J)=W(19,J)
GO TO 332
320 DC 331 I=1,37
DO 331 J=1,11
331 WC(I,J)=W(I,J)/H
332 GO TO(340,335,335,335,335,335,335), I=CT
335 CALL TABULA
340 GC TC 15
345 STOP
END

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COLLO288
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COLLO385

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REGFA001
REGFA002
REGFA003
REGFA004
REGFA005
REGFA006
REGFA007
REGFA008
REGFA009
REGFA010
REGFA011
REGFA012
REGFA013
REGFA014
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ANGLE001
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ANGLE064
ANGLE065

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DCUBLE PRECISION FUNCTION FUNC1(R)
IMPLICIT REAL*8 (A-H,O-Z)
DIMENSION RR(19), AA(76), RSTO(19), ASTO(19), ANG(19), THETA(19),
1 W(37,11), WC(37,11), D(38,39)
COMMON ALPHA,BETA,P,SSI,CCO,CULCAD,CLLCAD,RR,W,PUNCH,AA,RSTO,
1 ASTO,D,ANG,WC,THETA,XU,XV,ICT,N,IWOT
FUNC1 = (DABS(R*CCO/XU))**ALPHA+(CABS(R*SSI/XV))**BETA-1.00
RETURN
END

```

```

FUNC1001
FUNC1002
FUNC1003
FUNC1004
FUNC1005
FUNC1006
FUNC1007
FUNC1008
FUNC1009

```

```

DCUBLE PRECISION FUNCTION FUNC2(X)
IMPLICIT REAL*8 (A-H,O-Z)
DIMENSION RR(19), AA(76), RSTO(19), ASTO(19), ANG(19), THETA(19),
1 W(37,11), WC(37,11), D(38,39)
COMMON ALPHA,BETA,P,SSI,CCO,CULCAD,CLLCAD,RR,W,PUNCH,AA,RSTO,
1 ASTO,D,ANG,WC,THETA,XU,XV,ICT,N,IWOT
XA = (DABS(X/XU))**ALPHA
IF (BETA - 1.00)10,10,15
10 FUNC2 = ALPHA*XV*XA/X-1.000
RETURN
15 BB = (1.000-BETA)/BETA
FUNC2 = XV/BETA*(DABS(1.000-XA))**BB*ALPHA*XA/X-1.000
RETURN
END

```

```

FUNC2001
FUNC2002
FUNC2003
FUNC2004
FUNC2005
FUNC2006
FUNC2007
FUNC2008
FUNC2009
FUNC2010
FUNC2011
FUNC2012
FUNC2013
FUNC2014

```

```

SUBROUTINE SIMEC(MISCUE)
IMPLICIT REAL*8 (A-H,O-Z)
DIMENSION RR(19), AA(76), RSTO(19), ASTO(19), ANG(19), THETA(19),
1 W(37,11), WC(37,11), D(38,39)
COMMON ALPHA,BETA,P,SSI,CCO,CULCAD,CLLCAD,RR,W,PUNCH,AA,RSTO,
1 ASTO,D,ANG,WC,THETA,XU,XV,ICT,N,IWOT
C SIMULTANEOUS EQUATIONS SOLVER
NN = 2*N
I = NN
J = NN+1
IA = I-1
DO 35 NM = 1,IA
DMAX = 0.000
DO 15 K = NM,1
IF (DABS(DMAX)-CABS(C(K,NM)))10,10,15
10 DMAX = D(K,NM)
M = K
15 CCNTINUE
IF (DMAX)25,20,25
20 MISCUE = 2
RETURN
25 MISCUE = 1
DO 30 L = NM,J
DT = D(M,L)
D(M,L) = D(NM,L)
30 D(NM,L) = DT
IB = NM+1
DO 35 L = IB,I
CONST = -C(L,NM)/D(NM,NM)
DO 35 K = NM,J
D(L,K) = CONST*D(NM,K)+C(L,K)
35 AA(I) = D(I,J)/D(I,I)
IC = I-1
DO 45 NM = 1,IC
L = I-NM
SUM = 0.000
DO 40 K = L+1,I
SUM = SUM+AA(K)*D(L,K)
40 SUM = (C(L,J)-SUM)/D(L,L)
45 AA(L) = SUM
RETURN
END

```

```

SIME0001
SIME0002
SIME0003
SIME0004
SIME0005
SIME0006
SIME0007
SIME0008
SIME0009
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SIME0011
SIME0012
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SIME0031
SIME0032
SIME0033
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SIME0035
SIME0036
SIME0037
SIME0038
SIME0039
SIME0040
SIME0041
SIME0042

```



```

SUBROUTINE OUTPUT
IMPLICIT REAL*8 (A-H,O-Z)
DIMENSION RR(19), ANG(19), W(37,11), WC(37,11), KANG(37), A(37,133),
1 R(39), BUF(110), AA(76), RSTC(19), ASTC(19), U(38,39), THETA(19)
COMMON ALPHA, BETA, P, SSI, CCC, CULOAD, CLLCAD, RR, W, PUNCH, AA, RSTC,
1 ASTO, O, ANG, WC, THETA, XU, XV, ICT, N, IWCT
CALL F1099Z(8, BUF, 30, 110)
WRITE (6, 1000) ALPHA, BETA, RR(1), RR(19), CULOAD, QLLCAD, W(1,1)
1000 FORMAT (11,3X,'ALPHA =',F5.2,2X,'BETA =',F5.2,2X,'A =',F5.2,2X,
1 'B =',F5.2,2X,'CULOAD =',F5.3,2X,'CLLCAD =',F5.3,2X,
1 'CENTER DEFLECTION =',F16.8/)
WRITE (6, 1005)
1005 FORMAT(13X,'RADIUS      0.1R      0.2R      0.3R      0.4R',
1 '      0.5R      0.6R      0.7R      0.8R      0.9R')
DO 10 I = 1, 19
L = 20-I
KANG(I) = ANG(L)+.100
IF (I.EQ.19) GO TO 5
KANG(I+19) = KANG(I)
5 R(I) = RR(L)
10 R(I+19) = R(I)
WRITE (8, 1010) (KANG(I), R(I), (W(I,J), J=2,11), I=1,37)
1010 FORMAT(37(12,OPF7.4,1P10D11.4/))
REAC (8, 1015) ((A(I,J), J=1,109), I=1,37)
1015 FORMAT (37(9A1,10(7A1,1X,3A1)/))
WRITE (6, 1020) ((A(I,J), J=1,99), I=1,19)
1020 FORMAT (37(10X,9A1,9(1X,10A1)/))
RETURN
END

```

OUTPUT01
 OUTPUT02
 OUTPUT03
 OUTPUT04
 OUTPUT05
 OUTPUT06
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 OUTPUT11
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 OUTPUT13
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 OUTPUT22
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 OUTPUT26
 OUTPUT27
 OUTPUT28
 OUTPUT29
 OUTPUT30

```

SUBROUTINE TABULA
IMPLICIT REAL*8 (A-H,O-Z)
DIMENSION RR(19), AA(76), RSTC(19), ASTC(19), ANG(19), THETA(19),
1 W(37,11), U(38,39), A(37,133), KANG(37), R(39), ACONV(78,10)
DIMENSION BUF2(1295), BUF3(864), WC(37,11)
COMMON ALPHA, BETA, P, SSI, CCC, CULOAD, CLLCAD, RR, W, PUNCH, AA, RSTC,
1 ASTO, O, ANG, WC, THETA, XU, XV, ICT, N, IWCT
NN = N+N
NMAX = NN+NN
GO TO (5,5,5,25,5,5,5,25), IWCT
5 WRITE (6, 1000) ALPHA, BETA, RR(1), RR(19), CULOAD, QLLCAD, WC(1,1)
1000 FORMAT (11,3X,'ALPHA =',F5.2,2X,'BETA =',F5.2,2X,'A =',F5.2,2X,
1 'B =',F5.2,2X,'CULOAD =',F5.3,2X,'CLLCAD =',F5.3,2X,
1 'CENTER DEFLECTION =',F16.8/)
WRITE (6, 1005)
1005 FORMAT(13X,'RADIUS      0.1R      0.2R      0.3R      0.4R',
1 '      0.5R      0.6R      0.7R      0.8R      0.9R')
CALL F1099Z(8, BUF2, 35, 1295)
DO 20 I = 1, 37
IF (I-19) 10, 10, 15
10 L = 20-I
KANG(I) = ANG(L)+.100
R(I) = RR(L)
GO TO 20
15 L = I-18
KANG(I) = -ANG(L)-.100
R(I) = RR(L)
20 CONTINUE
WRITE (8, 1010) (KANG(I), R(I), (WC(I,J), J=2,11), I=1,37)
1010 FORMAT(37(13,OPF7.4,1P10D11.4/))
READ (8, 1015) ((A(I,J), J=1,110), I=1,37)
1015 FORMAT (37(10A1,10(7A1,1X,3A1)/))
WRITE (6, 1020) ((A(I,J), J=1,100), I=1,37)
1020 FORMAT (37(9X,10A1,9(1X,10A1)/))
GO TO (65,65,25,25,65,65,25,25), IWCT
25 WRITE (6, 1025)
1025 FORMAT (11,8X,'SERIES COEFFICIENTS AA',4X,'COLLOCATION POINTS',
1 ' /10X,'UNIFORM LINEAR',6X,'RADIUS ANGLE')
CALL F1099X
CALL F1099Z(8, BUF3, 72, 864)
WRITE (8, 1030) (AA(I), I=1, NMAX)
1030 FORMAT(3(26(1PD11.4/)))
READ (8, 1035) ((ACONV(I,J), J=1,10), I=1, NMAX)
1035 FORMAT (3(26(7A1,1X,3A1)/))
DO 40 I = 1, NN
J = I+38
IF (I-N) 30, 30, 35
30 WRITE (6, 1040) I, (ACONV(I,K), K=1,10), (ACONV(J,K), K=1,10), RSTC(I),
1 ASTC(I)
1040 FORMAT (13,2X,2(2X,10A1,1X),F10.4,3X,F5.2)
GO TO 40
35 WRITE (6, 1045) I, (ACONV(I,K), K=1,10), (ACONV(J,K), K=1,10)
1045 FORMAT (13,2X,2(2X,10A1,1X))
40 CONTINUE
IF (PUNCH) 65, 65, 45
45 WRITE (7, 1050) ALPHA, BETA, RR(1), RR(19), W(1,1)
1050 FORMAT (4F10.2, 2D12.5)
DO 60 I = 1, 37
IF (I-19) 50, 50, 55
50 L = 20-I
GO TO 60
55 L = I-18
60 WRITE (7, 1055) THETA(L), RR(L), (W(I,J), J=2,11)
1055 FORMAT (2F10.5, 5D12.5/5D12.5)
RETURN
END

```

TABULA01
 TABULA02
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 TABULA66

TABULATED RESULTS

1. Plate Shapes

Twelve representative plate shapes were selected by assigning values 1.0 and 2.0 for the ratio of vertical to horizontal dimension, b/a , of the plate, and using the following combinations of α and β :

(1.6,1.6), (2.0,2.0), (3.0,3.0), (5.0,5.0), (10.0,10.0), (1.6,10.0)

2. Plate Loadings

Two loads were applied to each of the above plates, a uniform load as well as uniform plus linear load. In (7), $q = .004 y + .002$ while the flexural rigidity, D , was assigned a value of unity by selecting $D = 1.0 = E h^3 / 12(1 - \nu^2)$. Since steel was assumed as the material with modulus of elasticity $E = 200$ GPa, and with Poisson's ratio assumed to be 0.3, h was selected as 0.379371 mm .

3. Floating Point Notation

The values which appear in the tables are in floating point notation as follows:

6.4252 01	=	64.252
6.4252-02	=	0.064252
-6.4252 00	=	-6.4252

4. Tables

Deflections for uniform load are first presented. These are followed by uniform and linear components displayed separately. The total deflection due to the linear and uniform loads are then presented.

TABLES

ALPHA = 1.60 BETA = 1.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLDAD=0.0

CENTER DEFLECTION = 0.06571199

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	6.4252-02	5.9985-02	5.3245-02	4.4571-02	3.4686-02	2.4464-02	1.4890-02	6.9973-03	1.7826-03
85 0.9913	6.4277-02	6.0081-02	5.3443-02	4.4882-02	3.5096-02	2.4930-02	1.5342-02	7.3487-03	1.9488-03
80 0.9778	6.4316-02	6.0226-02	5.3741-02	4.5345-02	3.5692-02	2.5586-02	1.5949-02	7.7822-03	2.1214-03
75 0.9636	6.4355-02	6.0376-02	5.4047-02	4.5813-02	3.6285-02	2.6223-02	1.6516-02	8.1637-03	2.2594-03
70 0.9503	6.4392-02	6.0514-02	5.4326-02	4.6238-02	3.6816-02	2.6781-02	1.6999-02	8.4763-03	2.3676-03
65 0.9387	6.4423-02	6.0633-02	5.4565-02	4.6597-02	3.7259-02	2.7240-02	1.7388-02	8.7219-03	2.4500-03
60 0.9294	6.4449-02	6.0727-02	5.4754-02	4.6880-02	3.7606-02	2.7595-02	1.7684-02	8.9059-03	2.5109-03
55 0.9226	6.4467-02	6.0795-02	5.4890-02	4.7083-02	3.7854-02	2.7847-02	1.7892-02	9.0335-03	2.5527-03
50 0.9184	6.4478-02	6.0836-02	5.4972-02	4.7206-02	3.8002-02	2.7996-02	1.8015-02	9.1084-03	2.5770-03
45 0.9170	6.4481-02	6.0850-02	5.5000-02	4.7246-02	3.8052-02	2.8046-02	1.8056-02	9.1331-03	2.5851-03
40 0.9184	6.4478-02	6.0836-02	5.4972-02	4.7206-02	3.8002-02	2.7996-02	1.8015-02	9.1083-03	2.5770-03
35 0.9226	6.4467-02	6.0795-02	5.4890-02	4.7083-02	3.7854-02	2.7846-02	1.7892-02	9.0333-03	2.5526-03
30 0.9294	6.4449-02	6.0727-02	5.4753-02	4.6879-02	3.7606-02	2.7595-02	1.7684-02	8.9056-03	2.5107-03
25 0.9387	6.4423-02	6.0632-02	5.4564-02	4.6596-02	3.7258-02	2.7239-02	1.7387-02	8.7214-03	2.4500-03
20 0.9503	6.4392-02	6.0514-02	5.4326-02	4.6237-02	3.6815-02	2.6779-02	1.6997-02	8.4755-03	2.3671-03
15 0.9636	6.4355-02	6.0376-02	5.4046-02	4.5812-02	3.6284-02	2.6221-02	1.6514-02	8.1624-03	2.2590-03
10 0.9778	6.4316-02	6.0226-02	5.3741-02	4.5344-02	3.5691-02	2.5584-02	1.5947-02	7.7802-03	2.1202-03
5 0.9913	6.4277-02	6.0081-02	5.3442-02	4.4881-02	3.5094-02	2.4928-02	1.5340-02	7.3457-03	1.9463-03
0 1.0000	6.4252-02	5.9985-02	5.3244-02	4.4570-02	3.4684-02	2.4462-02	1.4887-02	6.9937-03	1.7781-03
-5 0.9913	6.4277-02	6.0081-02	5.3442-02	4.4881-02	3.5094-02	2.4928-02	1.5340-02	7.3457-03	1.9463-03
-10 0.9778	6.4316-02	6.0226-02	5.3741-02	4.5344-02	3.5691-02	2.5584-02	1.5947-02	7.7802-03	2.1202-03
-15 0.9636	6.4355-02	6.0376-02	5.4046-02	4.5812-02	3.6284-02	2.6221-02	1.6514-02	8.1624-03	2.2590-03
-20 0.9503	6.4392-02	6.0514-02	5.4326-02	4.6237-02	3.6815-02	2.6779-02	1.6997-02	8.4755-03	2.3671-03
-25 0.9387	6.4423-02	6.0632-02	5.4564-02	4.6596-02	3.7258-02	2.7239-02	1.7387-02	8.7214-03	2.4500-03
-30 0.9294	6.4449-02	6.0727-02	5.4753-02	4.6879-02	3.7606-02	2.7595-02	1.7684-02	8.9056-03	2.5107-03
-35 0.9226	6.4467-02	6.0795-02	5.4890-02	4.7083-02	3.7854-02	2.7846-02	1.7892-02	9.0333-03	2.5526-03
-40 0.9184	6.4478-02	6.0836-02	5.4972-02	4.7206-02	3.8002-02	2.7996-02	1.8015-02	9.1083-03	2.5770-03
-45 0.9170	6.4481-02	6.0850-02	5.5000-02	4.7246-02	3.8052-02	2.8046-02	1.8056-02	9.1331-03	2.5851-03
-50 0.9184	6.4478-02	6.0836-02	5.4972-02	4.7206-02	3.8002-02	2.7996-02	1.8015-02	9.1084-03	2.5770-03
-55 0.9226	6.4467-02	6.0795-02	5.4890-02	4.7083-02	3.7854-02	2.7847-02	1.7892-02	9.0335-03	2.5527-03
-60 0.9294	6.4449-02	6.0727-02	5.4754-02	4.6880-02	3.7606-02	2.7595-02	1.7684-02	8.9059-03	2.5109-03
-65 0.9387	6.4423-02	6.0633-02	5.4565-02	4.6597-02	3.7259-02	2.7240-02	1.7388-02	8.7219-03	2.4500-03
-70 0.9503	6.4392-02	6.0514-02	5.4326-02	4.6238-02	3.6816-02	2.6781-02	1.6999-02	8.4763-03	2.3676-03
-75 0.9636	6.4355-02	6.0376-02	5.4047-02	4.5813-02	3.6285-02	2.6223-02	1.6516-02	8.1637-03	2.2594-03
-80 0.9778	6.4316-02	6.0226-02	5.3741-02	4.5345-02	3.5692-02	2.5586-02	1.5949-02	7.7822-03	2.1214-03
-85 0.9913	6.4277-02	6.0081-02	5.3443-02	4.4882-02	3.5096-02	2.4930-02	1.5342-02	7.3487-03	1.9488-03
-90 1.0000	6.4252-02	5.9985-02	5.3245-02	4.4571-02	3.4686-02	2.4464-02	1.4890-02	6.9973-03	1.7826-03

ALPHA = 1.60 BETA = 1.60 A = 1.00 B = 1.00 CULOAD=0.002 CLLDAD=0.004

CENTER DEFLECTION = 0.06571199

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	6.4252-02	5.9985-02	5.3245-02	4.4571-02	3.4686-02	2.4464-02	1.4890-02	6.9973-03	1.7826-03
85 0.9913	6.4277-02	6.0081-02	5.3443-02	4.4882-02	3.5096-02	2.4930-02	1.5342-02	7.3487-03	1.9488-03
80 0.9778	6.4316-02	6.0226-02	5.3741-02	4.5345-02	3.5692-02	2.5586-02	1.5949-02	7.7822-03	2.1214-03
75 0.9636	6.4355-02	6.0376-02	5.4047-02	4.5813-02	3.6285-02	2.6223-02	1.6516-02	8.1637-03	2.2594-03
70 0.9503	6.4392-02	6.0514-02	5.4326-02	4.6238-02	3.6816-02	2.6781-02	1.6999-02	8.4763-03	2.3676-03
65 0.9387	6.4423-02	6.0633-02	5.4565-02	4.6597-02	3.7259-02	2.7240-02	1.7388-02	8.7219-03	2.4500-03
60 0.9294	6.4449-02	6.0727-02	5.4754-02	4.6880-02	3.7606-02	2.7595-02	1.7684-02	8.9059-03	2.5109-03
55 0.9226	6.4467-02	6.0795-02	5.4890-02	4.7083-02	3.7854-02	2.7847-02	1.7892-02	9.0335-03	2.5527-03
50 0.9184	6.4478-02	6.0836-02	5.4972-02	4.7206-02	3.8002-02	2.7996-02	1.8015-02	9.1084-03	2.5770-03
45 0.9170	6.4481-02	6.0850-02	5.5000-02	4.7246-02	3.8052-02	2.8046-02	1.8056-02	9.1331-03	2.5851-03
40 0.9184	6.4478-02	6.0836-02	5.4972-02	4.7206-02	3.8002-02	2.7996-02	1.8015-02	9.1083-03	2.5770-03
35 0.9226	6.4467-02	6.0795-02	5.4890-02	4.7083-02	3.7854-02	2.7846-02	1.7892-02	9.0333-03	2.5526-03
30 0.9294	6.4449-02	6.0727-02	5.4753-02	4.6879-02	3.7606-02	2.7595-02	1.7684-02	8.9056-03	2.5107-03
25 0.9387	6.4423-02	6.0632-02	5.4564-02	4.6596-02	3.7258-02	2.7239-02	1.7387-02	8.7214-03	2.4500-03
20 0.9503	6.4392-02	6.0514-02	5.4326-02	4.6237-02	3.6815-02	2.6779-02	1.6997-02	8.4755-03	2.3671-03
15 0.9636	6.4355-02	6.0376-02	5.4046-02	4.5812-02	3.6284-02	2.6221-02	1.6514-02	8.1624-03	2.2590-03
10 0.9778	6.4316-02	6.0226-02	5.3741-02	4.5344-02	3.5691-02	2.5584-02	1.5947-02	7.7802-03	2.1202-03
5 0.9913	6.4277-02	6.0081-02	5.3442-02	4.4881-02	3.5094-02	2.4928-02	1.5340-02	7.3457-03	1.9463-03
0 1.0000	6.4252-02	5.9985-02	5.3244-02	4.4570-02	3.4684-02	2.4462-02	1.4887-02	6.9937-03	1.7781-03
90 1.0000	4.3126-03	8.0745-03	1.0800-02	1.2133-02	1.1905-02	1.0186-02	7.3322-03	4.0068-03	1.1753-03
85 0.9913	4.2603-03	7.9852-03	1.0701-02	1.2058-02	1.1882-02	1.0234-02	7.4428-03	4.1403-03	1.2609-03
80 0.9778	4.1564-03	7.8024-03	1.0484-02	1.1860-02	1.1754-02	1.0203-02	7.5032-03	4.2408-03	1.3215-03
75 0.9636	4.0195-03	7.5564-03	1.0179-02	1.1557-02	1.1509-02	1.0055-02	7.4538-03	4.2544-03	1.3401-03
70 0.9503	3.8579-03	7.2613-03	9.8012-03	1.1160-02	1.1155-02	9.7895-03	7.2949-03	4.1868-03	1.3256-03
65 0.9387	3.6766-03	6.9261-03	9.3624-03	1.0681-02	1.0703-02	9.4191-03	7.0349-03	4.0512-03	1.2853-03
60 0.9294	3.4788-03	6.5569-03	8.8708-03	1.0131-02	1.0165-02	8.9575-03	6.7024-03	3.8603-03	1.2250-03
55 0.9226	3.2665-03	6.1577-03	8.3326-03	9.5191-03	9.5526-03	8.4179-03	6.2971-03	3.6246-03	1.1489-03
50 0.9184	3.0407-03	5.7310-03	7.7522-03	8.5110-03	8.8749-03	7.8120-03	5.8353-03	3.3526-03	1.0604-03
45 0.9170	2.8020-03	5.2780-03	7.1327-03	8.1326-03	8.1401-03	7.1495-03	5.3267-03	3.0515-03	9.6209-04
40 0.9184	2.5502-03	4.7993-03	6.4759-03	7.3681-03	7.3550-03	6.4340-03	4.7796-03	2.7269-03	8.5603-04
35 0.9226	2.2850-03	4.2948-03	5.7830-03	6.5608-03	6.5254-03	5.6881-03	4.2015-03	2.3842-03	7.4422-04
30 0.9294	2.0056-03	3.7636-03	5.0546-03	5.7136-03	5.6568-03	4.9040-03	3.5997-03	2.0286-03	6.2843-04
25 0.9387	1.7111-03	3.2051-03	4.2910-03	4.8294-03	4.7548-03	4.0945-03	2.9818-03	1.6653-03	5.1076-04
20 0.9503	1.4009-03	2.6183-03	3.4928-03	3.9113-03	3.8256-03	3.2678-03	2.5360-03	1.3008-03	3.9353-04
15 0.9636	1.0741-03	2.0028-03	2.6613-03	2.4634-03	2.4771-03	2.4340-03	1.7342-03	9.4268-04	2.7268-04
10 0.9778	7.3067-04	1.3592-03	1.7986-03	1.9908-03	1.9172-03	1.6044-03	1.1265-03	6.0020-04	1.7302-04
5 0.9913	3.7152-04	6.8954-04	9.0894-04	1.0004-03	9.5557-04	7.9067-04	5.4614-04	2.8371-04	7.8263-05

ALPHA = 1.60 BETA = 1.60 A = 1.00 B = 1.00 CULOAD=0.002 QLLUAD=0.004

CENTER DEFLECTION = 0.06571199

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	1.0000	6.8565-02	6.8060-02	6.4045-02	5.6704-02	4.6590-02	3.4650-02	2.2222-02	1.1004-02	2.9579-03
85	0.9913	6.8538-02	6.8066-02	6.4144-02	5.6940-02	4.6978-02	3.5164-02	2.2785-02	1.1489-02	3.2097-03
80	0.9778	6.8472-02	6.8029-02	6.4226-02	5.7205-02	4.7446-02	3.5790-02	2.3452-02	1.2023-02	3.4429-03
75	0.9636	6.8375-02	6.7933-02	6.4226-02	5.7370-02	4.7794-02	3.6277-02	2.3969-02	1.2418-02	3.5944-03
70	0.9503	6.8250-02	6.7776-02	6.4128-02	5.7397-02	4.7971-02	3.6570-02	2.4293-02	1.2663-02	3.6532-03
65	0.9387	6.8100-02	6.7559-02	6.3927-02	5.7278-02	4.7962-02	3.6659-02	2.4427-02	1.2773-02	3.7353-03
60	0.9294	6.7927-02	6.7284-02	6.3624-02	5.7011-02	4.7771-02	3.6553-02	2.4387-02	1.2766-02	3.7358-03
55	0.9226	6.7733-02	6.6953-02	6.3223-02	5.6602-02	4.7407-02	3.6265-02	2.4189-02	1.2658-02	3.7016-03
50	0.9184	6.7518-02	6.6567-02	6.2725-02	5.6057-02	4.6877-02	3.5808-02	2.3851-02	1.2461-02	3.6374-03
45	0.9170	6.7283-02	6.6128-02	6.2132-02	5.5379-02	4.6192-02	3.5196-02	2.3383-02	1.2185-02	3.5471-03
40	0.9184	6.7028-02	6.5635-02	6.1448-02	5.4574-02	4.5357-02	3.4435-02	2.2795-02	1.1835-02	3.4330-03
35	0.9226	6.6752-02	6.5090-02	6.0673-02	5.3644-02	4.4379-02	3.3534-02	2.2094-02	1.1418-02	3.2968-03
30	0.9294	6.6454-02	6.4490-02	5.9808-02	5.2593-02	4.3262-02	3.2499-02	2.1284-02	1.0934-02	3.1391-03
25	0.9387	6.6135-02	6.3837-02	5.8855-02	5.1425-02	4.2013-02	3.1333-02	2.0369-02	1.0387-02	2.9607-03
20	0.9503	6.5793-02	6.3133-02	5.7819-02	5.0148-02	4.0640-02	3.0047-02	1.9354-02	9.7763-03	2.7606-03
15	0.9636	6.5429-02	6.2379-02	5.6708-02	4.8776-02	3.9161-02	2.8655-02	1.8248-02	9.1051-03	2.5386-03
10	0.9778	6.5046-02	6.1585-02	5.5539-02	4.7335-02	3.7608-02	2.7189-02	1.7073-02	8.3804-03	2.2932-03
5	0.9913	6.4649-02	6.0770-02	5.4351-02	4.5882-02	3.6050-02	2.5719-02	1.5886-02	7.6294-03	2.0245-03
0	1.0000	6.4252-02	5.9985-02	5.3244-02	4.4570-02	3.4684-02	2.4462-02	1.4887-02	6.9937-03	1.7781-03
-5	0.9913	6.3906-02	5.9391-02	5.2533-02	4.3881-02	3.4139-02	2.4137-02	1.4793-02	6.0620-03	1.8680-03
-10	0.9778	6.3585-02	5.8867-02	5.1942-02	4.3353-02	3.3773-02	2.3980-02	1.4820-02	7.1800-03	1.9471-03
-15	0.9636	6.3281-02	5.8373-02	5.1385-02	4.2849-02	3.3407-02	2.3787-02	1.4780-02	7.2197-03	1.9793-03
-20	0.9503	6.2991-02	5.7896-02	5.0833-02	4.2326-02	3.2989-02	2.3512-02	1.4641-02	7.1747-03	1.9736-03
-25	0.9387	6.2712-02	5.7427-02	5.0273-02	4.1767-02	3.2503-02	2.3145-02	1.4405-02	7.0561-03	1.9392-03
-30	0.9294	6.2443-02	5.6963-02	4.9699-02	4.1166-02	3.1949-02	2.2690-02	1.4084-02	6.8770-03	1.8823-03
-35	0.9226	6.2182-02	5.6500-02	4.9107-02	4.0522-02	3.1328-02	2.2158-02	1.3690-02	6.6490-03	1.8084-03
-40	0.9184	6.1928-02	5.6037-02	4.8496-02	3.9837-02	3.0647-02	2.1557-02	1.3236-02	6.3814-03	1.7209-03
-45	0.9170	6.1679-02	5.5572-02	4.7867-02	3.9114-02	2.9912-02	2.0897-02	1.2729-02	6.0817-03	1.6230-03
-50	0.9184	6.1437-02	5.5105-02	4.7220-02	3.8355-02	2.9127-02	2.0184-02	1.2180-02	5.7558-03	1.5166-03
-55	0.9226	6.1200-02	5.4637-02	4.6558-02	3.7564-02	2.8301-02	1.9429-02	1.1595-02	5.4089-03	1.4037-03
-60	0.9294	6.0970-02	5.4170-02	4.5883-02	3.6748-02	2.7441-02	1.8638-02	1.0982-02	5.0457-03	1.2859-03
-65	0.9387	6.0747-02	5.3706-02	4.5202-02	3.5915-02	2.6556-02	1.7821-02	1.0348-02	4.6707-03	1.1647-03
-70	0.9503	6.0534-02	5.3253-02	4.4525-02	3.5078-02	2.5660-02	1.6991-02	9.7036-03	4.2895-03	1.0419-03
-75	0.9636	6.0336-02	5.2820-02	4.3868-02	3.4256-02	2.4776-02	1.6168-02	9.0619-03	3.9093-03	9.1930-04
-80	0.9778	6.0159-02	5.2424-02	4.3257-02	3.3485-02	2.3938-02	1.5383-02	8.4458-03	3.5414-03	7.9982-04
-85	0.9913	6.0017-02	5.2096-02	4.2742-02	3.2825-02	2.3214-02	1.4696-02	7.8995-03	3.2085-03	6.8797-04
-90	1.0000	5.9940-02	5.1911-02	4.2445-02	3.2438-02	2.2781-02	1.4278-02	7.5577-03	2.9906-03	6.0731-04

ALPHA = 1.60 BETA = 1.60 A = 1.00 B = 2.00 CULOAD=0.002 QLLUAD=0.0

CENTER DEFLECTION = 0.15340862

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	2.0000	1.4919-01	1.3706-01	1.1849-01	9.5647-02	7.1036-02	4.7246-02	2.6681-02	1.1325-02	2.5005-03
85	1.9341	1.4940-01	1.3784-01	1.2004-01	9.7942-02	7.3853-02	5.0196-02	2.9287-02	1.3130-02	3.1792-03
80	1.8229	1.4969-01	1.3890-01	1.2212-01	1.0098-01	7.7515-02	5.3928-02	3.2458-02	1.5195-02	3.9393-03
75	1.7018	1.4994-01	1.3983-01	1.2393-01	1.0363-01	8.0682-02	5.7117-02	3.5112-02	1.6871-02	4.5134-03
70	1.5856	1.5013-01	1.4054-01	1.2534-01	1.0568-01	8.3134-02	5.9577-02	3.7144-02	1.8135-02	4.9304-03
65	1.4803	1.5027-01	1.4105-01	1.2635-01	1.0717-01	8.4923-02	6.1377-02	3.8630-02	1.9057-02	5.2686-03
60	1.3878	1.5036-01	1.4139-01	1.2703-01	1.0819-01	8.6166-02	6.2640-02	3.9683-02	1.9706-02	5.5434-03
55	1.3082	1.5042-01	1.4161-01	1.2747-01	1.0885-01	8.6983-02	6.3484-02	4.0394-02	2.0168-02	5.6212-03
50	1.2404	1.5045-01	1.4173-01	1.2772-01	1.0924-01	8.7470-02	6.4001-02	4.0841-02	2.0447-02	5.7495-03
45	1.1834	1.5046-01	1.4177-01	1.2782-01	1.0941-01	8.7703-02	6.4265-02	4.1084-02	2.0606-02	5.7498-03
40	1.1360	1.5046-01	1.4177-01	1.2782-01	1.0942-01	8.7737-02	6.4327-02	4.1162-02	2.0681-02	5.8061-03
35	1.0970	1.5045-01	1.4172-01	1.2773-01	1.0930-01	8.7616-02	6.4226-02	4.1099-02	2.0658-02	5.8346-03
30	1.0657	1.5043-01	1.4165-01	1.2759-01	1.0909-01	8.7370-02	6.3991-02	4.0920-02	2.0551-02	5.7675-03
25	1.0412	1.5040-01	1.4155-01	1.2740-01	1.0881-01	8.7025-02	6.3645-02	4.0640-02	2.0387-02	5.7061-03
20	1.0228	1.5037-01	1.4145-01	1.2717-01	1.0847-01	8.6603-02	6.3206-02	4.0270-02	2.0164-02	5.6643-03
15	1.0101	1.5034-01	1.4133-01	1.2693-01	1.0810-01	8.6127-02	6.2694-02	3.9819-02	1.9870-02	5.5662-03
10	1.0026	1.5031-01	1.4121-01	1.2669-01	1.0771-01	8.5626-02	6.2140-02	3.9308-02	1.9509-02	5.4120-03
5	0.9996	1.5028-01	1.4110-01	1.2646-01	1.0735-01	8.5149-02	6.1596-02	3.8783-02	1.9114-02	5.2459-03
0	1.0000	1.5026-01	1.4103-01	1.2631-01	1.0712-01	8.4834-02	6.1226-02	3.8408-02	1.8807-02	5.0949-03
-5	0.9996	1.5028-01	1.4110-01	1.2646-01	1.0735-01	8.5149-02	6.1596-02	3.8783-02	1.9114-02	5.2459-03
-10	1.0026	1.5031-01	1.4121-01	1.2669-01	1.0771-01	8.5626-02	6.2140-02	3.9308-02	1.9509-02	5.4120-03
-15	1.0101	1.5034-01	1.4133-01	1.2693-01	1.0810-01	8.6127-02	6.2694-02	3.9819-02	1.9870-02	5.5662-03
-20	1.0228	1.5037-01	1.4145-01	1.2717-01	1.0847-01	8.6603-02	6.3206-02	4.0270-02	2.0164-02	5.6643-03
-25	1.0412	1.5040-01	1.4155-01	1.2740-01	1.0881-01	8.7025-02	6.3645-02	4.0640-02	2.0387-02	5.7061-03
-30	1.0657	1.5043-01	1.4165-01	1.2759-01	1.0909-01	8.7370-02	6.3991-02	4.0920-02	2.0551-02	5.7675-03
-35	1.0970	1.5045-01	1.4172-01	1.2773-01	1.0930-01	8.7616-02	6.4226-02	4.1099-02	2.0658-02	5.8346-03
-40	1.1360	1.5046-01	1.4177-01	1.2782-01	1.0942-01	8.7737-02	6.4327-02	4.1162-02	2.0681-02	5.8061-03
-45	1.1834	1.5046-01	1.4177-01	1.2782-01	1.0941-01	8.7703-02	6.4265-02	4.1084-02	2.0606-02	5.7498-03
-50	1.2404	1.5045-01	1.4173-01	1.2772-01	1.0924-01	8.7470-02	6.4001-02	4.0841-02	2.0447-02	5.7495-03
-55	1.3082	1.5042-01	1.4161-01	1.2747-01	1.0885-01	8.6983-02	6.3484-02	4.0394-02	2.0168-02	5.6212-03
-60	1.3878	1.5036-01	1.4139-01	1.2703-01	1.0819-01	8.6166-02	6.2640-02	3.9683-02	1.9706-02	5.5434-03
-65	1.4803	1.5027-01	1.4105-01	1.2635-01	1.0717-01	8.4923-02	6.1377-02	3.8630-02	1.9057-02	5.2686-03
-70	1.5856	1.5013-01	1.4054-01	1.2534-01	1.0568-01	8.3134-02	5.9577-02	3.7144-02	1.8135-02	4.9304-03
-75	1.7018	1.4994-01	1.3983-01	1.2393-01	1.0363-01	8.0682-02	5.7117-02	3.5112-02	1.6871-02	4.5134-03
-80	1.8229	1.4969-01	1.3890-01	1.2212-01	1.0098-01	7.7515-02	5.3928-02	3.2458-02	1.5195-02	3.9393-03
-85	1.9341	1.4940-01	1.3784-01	1.2004-01	9.7942-02	7.3853-02	5.0196-02	2.9287-02	1.3130-02	3.1792-03
-90	2.0000	1.4919-01	1.3706-01	1.1849-01	9.5647-02	7.1036-02	4.7246-02	2.6681-02	1.1325-02	2.5005-03

ALPHA = 1.60 BETA = 1.60 A = 1.00 d = 2.00 CULOAD=0.002 CLICAD=0.004

CENTER DEFLECTION = 0.15340862

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	1.8566-01	2.0458-01	2.0714-01	1.9264-01	1.6294-01	1.2239-01	7.7641-02	3.6950-02	4.1412-03
85 1.9341	1.8457-01	2.0321-01	2.0641-01	1.9335-01	1.6550-01	1.2664-01	8.2710-02	4.1388-02	1.1213-02
80 1.8229	1.8251-01	2.0018-01	2.0372-01	1.9215-01	1.6663-01	1.2960-01	8.6797-02	4.5033-02	1.2911-02
75 1.7018	1.8003-01	1.9622-01	1.9950-01	1.8880-01	1.6468-01	1.2962-01	8.8068-02	4.6558-02	1.3660-02
70 1.5856	1.7743-01	1.9183-01	1.9437-01	1.8395-01	1.6090-01	1.2730-01	8.7130-02	4.6484-02	1.3769-02
65 1.4803	1.7486-01	1.8734-01	1.8881-01	1.7825-01	1.5588-01	1.2351-01	8.4767-02	4.5400-02	1.3564-02
60 1.3878	1.7240-01	1.8291-01	1.8314-01	1.7217-01	1.5020-01	1.1889-01	8.1591-02	4.3714-02	1.3016-02
55 1.3082	1.7007-01	1.7864-01	1.7755-01	1.6601-01	1.4425-01	1.1385-01	7.7943-02	4.1749-02	1.2436-02
50 1.2404	1.6788-01	1.7456-01	1.7212-01	1.5991-01	1.3825-01	1.0867-01	7.4182-02	3.9591-02	1.1823-02
45 1.1834	1.6561-01	1.7068-01	1.6689-01	1.5396-01	1.3232-01	1.0348-01	7.0334-02	3.7385-02	1.1034-02
40 1.1360	1.6385-01	1.6697-01	1.6185-01	1.4819-01	1.2651-01	9.8358-02	6.6506-02	3.5202-02	1.0384-02
35 1.0970	1.6198-01	1.6343-01	1.5701-01	1.4260-01	1.2086-01	9.3338-02	6.2729-02	3.3023-02	9.7395-03
30 1.0657	1.6019-01	1.6001-01	1.5232-01	1.3718-01	1.1535-01	8.8428-02	5.9021-02	3.0861-02	8.9989-03
25 1.0412	1.5846-01	1.5670-01	1.4777-01	1.3190-01	1.0997-01	8.3625-02	5.5386-02	2.8748-02	8.3086-03
20 1.0228	1.5678-01	1.5347-01	1.4334-01	1.2675-01	1.0471-01	7.8921-02	5.1817-02	2.6678-02	7.6866-03
15 1.0101	1.5513-01	1.5031-01	1.3898-01	1.2169-01	9.9562-02	7.4307-02	4.8309-02	2.4628-02	7.0329-03
10 1.0026	1.5350-01	1.4718-01	1.3469-01	1.1673-01	9.4507-02	6.9786-02	4.4866-02	2.2599-02	6.3504-03
5 0.9996	1.5188-01	1.4409-01	1.3046-01	1.1184-01	8.9564-02	6.5383-02	4.1520-02	2.0621-02	5.6952-03
0 1.0000	1.5026-01	1.4103-01	1.2631-01	1.0712-01	8.4834-02	6.1226-02	3.8408-02	1.8807-02	5.0949-03
-5 0.9996	1.4869-01	1.3811-01	1.2246-01	1.0286-01	8.0733-02	5.7809-02	3.6047-02	1.7607-02	4.7967-03
-10 1.0026	1.4712-01	1.3523-01	1.1868-01	9.8695-02	7.6744-02	5.4493-02	3.3750-02	1.6420-02	4.4737-03
-15 1.0101	1.4555-01	1.3235-01	1.1488-01	9.4498-02	7.2692-02	5.1081-02	3.1330-02	1.5111-02	4.0995-03
-20 1.0228	1.4396-01	1.2942-01	1.1101-01	9.0191-02	6.8492-02	4.7490-02	2.8723-02	1.3650-02	3.6420-03
-25 1.0412	1.4234-01	1.2641-01	1.0702-01	8.5713-02	6.4079-02	4.3664-02	2.5895-02	1.2026-02	3.1035-03
-30 1.0657	1.4066-01	1.2329-01	1.0285-01	8.1004-02	5.9393-02	3.9554-02	2.2819-02	1.0242-02	2.5361-03
-35 1.0970	1.3891-01	1.2002-01	9.8458-02	7.6003-02	5.4375-02	3.5114-02	1.9469-02	8.2938-03	1.9297-03
-40 1.1360	1.3707-01	1.1650-01	9.3779-02	7.0643-02	4.8962-02	3.0296-02	1.5817-02	6.1604-03	1.2286-03
-45 1.1834	1.3512-01	1.1278-01	8.8754-02	6.4855-02	4.3089-02	2.5051-02	1.1835-02	3.8274-03	4.6537-04
-50 1.2404	1.3302-01	1.0889-01	8.3313-02	5.8564-02	3.6691-02	1.9334-02	7.4995-03	1.3019-03	-3.2432-04
-55 1.3082	1.3076-01	1.0457-01	7.7389-02	5.1702-02	2.9714-02	1.3115-02	2.8052-03	-1.4133-03	-1.1939-03
-60 1.3878	1.2832-01	9.9873-02	7.0922-02	4.4214-02	2.2127-02	6.3945-03	-2.2257-03	-4.3025-03	-2.1092-03
-65 1.4803	1.2567-01	9.4759-02	6.3881-02	3.6092-02	1.3962-02	-7.5871-04	-7.5082-03	-7.2861-03	-3.0270-03
-70 1.5856	1.2283-01	8.9242-02	5.6302-02	2.7421-02	5.3638-03	-8.1519-03	-1.2842-02	-1.0215-02	-3.9077-03
-75 1.7018	1.1985-01	8.3430-02	4.8364-02	1.8469-02	-3.3149-03	-1.5382-02	-1.7844-02	-1.2817-02	-4.6334-03
-80 1.8229	1.1687-01	7.7619-02	4.0513-02	9.8159-03	-1.1398-02	-2.1747-02	-2.1881-02	-1.4642-02	-5.0323-03
-85 1.9341	1.1423-01	7.2474-02	3.3672-02	2.5343-03	-1.7790-02	-2.6244-02	-2.4137-02	-1.5129-02	-4.8544-03
-90 2.0000	1.1272-01	6.9538-02	2.9844-02	-1.3497-03	-2.0864-02	-2.7901-02	-2.4250-02	-1.4300-02	-4.1403-03

ALPHA = 1.60 BETA = 1.60 A = 1.00 B = 2.00 CULOAD=0.002 CLICAD=0.004

CENTER DEFLECTION = 0.15340862

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	1.4919-01	1.3706-01	1.1849-01	9.5647-02	7.1036-02	4.7246-02	2.6681-02	1.1325-02	2.5005-03
85 1.9341	1.4940-01	1.3784-01	1.2004-01	9.7942-02	7.3853-02	5.0196-02	2.9287-02	1.3130-02	3.1792-03
80 1.8229	1.4969-01	1.3890-01	1.2212-01	1.0098-01	7.7515-02	5.3928-02	3.2458-02	1.5195-02	3.9393-03
75 1.7018	1.4994-01	1.3983-01	1.2393-01	1.0363-01	8.0682-02	5.7117-02	3.5112-02	1.6871-02	4.5134-03
70 1.5856	1.5013-01	1.4054-01	1.2534-01	1.0568-01	8.3134-02	5.9577-02	3.7144-02	1.8135-02	4.9304-03
65 1.4803	1.5027-01	1.4105-01	1.2635-01	1.0717-01	8.4923-02	6.1377-02	3.8630-02	1.9057-02	5.2686-03
60 1.3878	1.5036-01	1.4139-01	1.2703-01	1.0819-01	8.6166-02	6.2640-02	3.9683-02	1.9706-02	5.5534-03
55 1.3082	1.5042-01	1.4161-01	1.2747-01	1.0885-01	8.6983-02	6.3484-02	4.0394-02	2.0168-02	5.8212-03
50 1.2404	1.5045-01	1.4173-01	1.2772-01	1.0924-01	8.7470-02	6.4001-02	4.0841-02	2.0447-02	5.7495-03
45 1.1834	1.5046-01	1.4177-01	1.2782-01	1.0941-01	8.7737-02	6.4265-02	4.1084-02	2.0606-02	5.7498-03
40 1.1360	1.5046-01	1.4177-01	1.2782-01	1.0942-01	8.7737-02	6.4327-02	4.1162-02	2.0681-02	5.8061-03
35 1.0970	1.5045-01	1.4172-01	1.2773-01	1.0930-01	8.7616-02	6.4226-02	4.1099-02	2.0658-02	5.8346-03
30 1.0657	1.5043-01	1.4165-01	1.2759-01	1.0909-01	8.7370-02	6.3991-02	4.0920-02	2.0551-02	5.7675-03
25 1.0412	1.5040-01	1.4155-01	1.2740-01	1.0881-01	8.7025-02	6.3645-02	4.0640-02	2.0387-02	5.7061-03
20 1.0228	1.5037-01	1.4145-01	1.2717-01	1.0847-01	8.6603-02	6.3206-02	4.0270-02	2.0164-02	5.6643-03
15 1.0101	1.5034-01	1.4133-01	1.2693-01	1.0810-01	8.6127-02	6.2694-02	3.9819-02	1.9870-02	5.5662-03
10 1.0026	1.5031-01	1.4121-01	1.2669-01	1.0771-01	8.5626-02	6.2140-02	3.9308-02	1.9509-02	5.4120-03
5 0.9996	1.5028-01	1.4110-01	1.2646-01	1.0735-01	8.5149-02	6.1596-02	3.8783-02	1.9114-02	5.2459-03
0 1.0000	1.5026-01	1.4103-01	1.2631-01	1.0712-01	8.4834-02	6.1246-02	3.8408-02	1.8807-02	5.0949-03
90 2.0000	3.6467-02	6.7521-02	8.8649-02	9.6997-02	9.1900-02	7.5147-02	5.0960-02	2.5625-02	6.6407-03
85 1.9341	3.5174-02	6.5367-02	8.6369-02	9.5408-02	9.1643-02	7.6440-02	5.3424-02	2.8258-02	8.0337-03
80 1.8229	3.2822-02	6.1280-02	8.1605-02	9.1167-02	8.8912-02	7.5675-02	5.4339-02	2.9837-02	8.9715-03
75 1.7018	3.0093-02	5.6396-02	7.5570-02	8.5163-02	8.3997-02	7.2499-02	5.2956-02	2.9687-02	9.1469-03
70 1.5856	2.7300-02	5.1296-02	6.5034-02	7.8262-02	7.7771-02	6.7728-02	4.9986-02	2.8350-02	8.8381-03
65 1.4803	2.4595-02	4.6289-02	6.2465-02	7.1078-02	7.0960-02	6.2135-02	4.6138-02	2.6343-02	8.2956-03
60 1.3878	2.2040-02	4.1518-02	5.6111-02	6.3974-02	6.4039-02	5.6246-02	4.1909-02	2.4008-02	7.5627-03
55 1.3082	1.9653-02	3.7034-02	5.0080-02	5.7152-02	5.7269-02	5.0369-02	3.7589-02	2.1581-02	6.8152-03
50 1.2404	1.7427-02	3.2838-02	4.4403-02	5.0672-02	5.0779-02	4.4667-02	3.3341-02	1.9145-02	6.0738-03
45 1.1834	1.5345-02	2.8906-02	3.9066-02	4.4553-02	4.4614-02	3.9214-02	2.9250-02	1.6779-02	5.2844-03
40 1.1360	1.3388-02	2.5206-02	3.4037-02	3.8774-02	3.8775-02	3.4031-02	2.5344-02	1.4521-02	4.5774-03
35 1.0970	1.1534-02	2.1702-02	2.9275-02	3.3300-02	3.3240-02	2.9112-02	2.1630-02	1.2364-02	3.9049-03
30 1.0657	9.7649-03	1.8359-02	2.4735-02	2.8089-02	2.7977-02	2.4437-02	1.8101-02	1.0310-02	3.2314-03
25 1.0412	8.0616-03	1.5145-02	2.0377-02	2.3056-02	2.2946-02	1.9981-02	1.4745-02	8.3614-03	2.6025-03
20 1.0228	6.4076-03	1.2028-02	1.6161-02	1.8279-02	1.8111-02	1.5715-02	1.1347-02	6.5141-03	2.0223-03
15 1.0101	4.7874-03	8.9792-03	1.2048-02	1.3599-02	1.3435-02	1.1613-02	8.4844-03	4.7581-03	1.4667-03
10 1.0026	3.1672-03	5.9733-03	8.0036-03	9.0157-03	8.8816-03	7.6462-03	5.5580-03	3.0895-03	9.3834-04
5 0.9996	1.5946-03	2.9865-03	3.9969-03	4.4941-03	4.4155-03	3.7867-03	2.7365-03	1.5067-03	4.4922-04

ALPHA = 1.60 BETA =10.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLOAD=0.0

CENTER DEFLECTION = 0.10340885

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	1.0155-01	9.6051-02	8.7137-02	7.5222-02	6.0941-02	4.5212-02	2.9303-02	1.4913-02	4.2354-03
85 1.0018	1.0154-01	9.6029-02	8.7096-02	7.5166-02	6.0884-02	4.5170-02	2.9293-02	1.4934-02	4.2638-03
80 1.0090	1.0152-01	9.5936-02	8.6912-02	7.4897-02	6.0565-02	4.4861-02	2.9055-02	1.4806-02	4.2304-03
75 1.0222	1.0147-01	9.5762-02	8.6564-02	7.4380-02	5.9937-02	4.4223-02	2.8527-02	1.4478-02	4.1206-03
70 1.0418	1.0140-01	9.5499-02	8.6038-02	7.3591-02	5.8968-02	4.3225-02	2.7680-02	1.3936-02	3.9309-03
65 1.0677	1.0131-01	9.5141-02	8.5318-02	7.2509-02	5.7632-02	4.1837-02	2.6491-02	1.3168-02	3.6622-03
60 1.1000	1.0119-01	9.4683-02	8.4395-02	7.1118-02	5.5910-02	4.0041-02	2.4947-02	1.2168-02	3.3104-03
55 1.1378	1.0104-01	9.4130-02	8.3281-02	6.9435-02	5.3819-02	3.7857-02	2.3066-02	1.0951-02	2.8862-03
50 1.1783	1.0088-01	9.3520-02	8.2046-02	6.7565-02	5.1491-02	3.5418-02	2.0963-02	9.5885-03	2.4079-03
45 1.2138	1.0073-01	9.2970-02	8.0929-02	6.5861-02	4.9353-02	3.3157-02	1.8994-02	8.3023-03	1.9602-03
40 1.2276	1.0068-01	9.2764-02	8.0496-02	6.5173-02	4.8443-02	3.2136-02	1.8043-02	7.6304-03	1.7023-03
35 1.2022	1.0079-01	9.3200-02	8.1360-02	6.6440-02	4.9955-02	3.3631-02	1.9230-02	8.3128-03	1.8759-03
30 1.1518	1.0101-01	9.4019-02	8.3011-02	6.8933-02	5.3049-02	3.6862-02	2.2007-02	1.0093-02	2.5368-03
25 1.1030	1.0121-01	9.4779-02	8.4556-02	7.1292-02	5.6020-02	4.0028-02	2.4811-02	1.1983-02	3.1618-03
20 1.0642	1.0137-01	9.5362-02	8.5747-02	7.3122-02	5.8341-02	4.2519-02	2.7041-02	1.3536-02	3.8279-03
15 1.0353	1.0148-01	9.5783-02	8.6608-02	7.4448-02	6.0027-02	4.4334-02	2.8660-02	1.4648-02	4.3300-03
10 1.0154	1.0155-01	9.6066-02	8.7188-02	7.5342-02	6.1167-02	4.5560-02	2.9745-02	1.5357-02	4.5399-03
5 1.0038	1.0160-01	9.6229-02	8.7522-02	7.5859-02	6.1826-02	4.6268-02	3.0366-02	1.5744-02	4.6098-03
0 1.0000	1.0161-01	9.6282-02	8.7631-02	7.6028-02	6.2041-02	4.6499-02	3.0568-02	1.5867-02	4.6333-03
-5 1.0038	1.0160-01	9.6229-02	8.7522-02	7.5859-02	6.1826-02	4.6268-02	3.0366-02	1.5744-02	4.6098-03
-10 1.0154	1.0155-01	9.6066-02	8.7188-02	7.5342-02	6.1167-02	4.5560-02	2.9745-02	1.5357-02	4.5399-03
-15 1.0353	1.0148-01	9.5783-02	8.6608-02	7.4448-02	6.0027-02	4.4334-02	2.8660-02	1.4648-02	4.3300-03
-20 1.0642	1.0137-01	9.5362-02	8.5747-02	7.3122-02	5.8341-02	4.2519-02	2.7041-02	1.3536-02	3.8279-03
-25 1.1030	1.0121-01	9.4779-02	8.4556-02	7.1292-02	5.6020-02	4.0028-02	2.4811-02	1.1983-02	3.1618-03
-30 1.1518	1.0101-01	9.4019-02	8.3011-02	6.8933-02	5.3049-02	3.6862-02	2.2007-02	1.0093-02	2.5368-03
-35 1.2022	1.0079-01	9.3200-02	8.1360-02	6.6440-02	4.9955-02	3.3631-02	1.9230-02	8.3128-03	1.8759-03
-40 1.2276	1.0068-01	9.2764-02	8.0496-02	6.5173-02	4.8443-02	3.2136-02	1.8043-02	7.6304-03	1.7023-03
-45 1.2138	1.0073-01	9.2970-02	8.0929-02	6.5861-02	4.9353-02	3.3157-02	1.8994-02	8.3023-03	1.9602-03
-50 1.1783	1.0088-01	9.3520-02	8.2046-02	6.7565-02	5.1491-02	3.5418-02	2.0963-02	9.5885-03	2.4079-03
-55 1.1378	1.0104-01	9.4130-02	8.3281-02	6.9435-02	5.3819-02	3.7857-02	2.3066-02	1.0951-02	2.8862-03
-60 1.1000	1.0119-01	9.4683-02	8.4395-02	7.1118-02	5.5910-02	4.0041-02	2.4947-02	1.2168-02	3.3104-03
-65 1.0677	1.0131-01	9.5141-02	8.5318-02	7.2509-02	5.7632-02	4.1837-02	2.6491-02	1.3168-02	3.6622-03
-70 1.0418	1.0140-01	9.5499-02	8.6038-02	7.3591-02	5.8968-02	4.3225-02	2.7680-02	1.3936-02	3.9309-03
-75 1.0222	1.0147-01	9.5762-02	8.6564-02	7.4380-02	5.9937-02	4.4223-02	2.8527-02	1.4478-02	4.1206-03
-80 1.0090	1.0152-01	9.5936-02	8.6912-02	7.4897-02	6.0565-02	4.4861-02	2.9055-02	1.4806-02	4.2304-03
-85 1.0018	1.0154-01	9.6029-02	8.7096-02	7.5166-02	6.0884-02	4.5170-02	2.9293-02	1.4934-02	4.2638-03
-90 1.0000	1.0155-01	9.6051-02	8.7137-02	7.5222-02	6.0941-02	4.5212-02	2.9303-02	1.4913-02	4.2354-03

ALPHA = 1.60 BETA =10.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLOAD=0.004

CENTER DEFLECTION = 0.10340885

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	1.0155-01	9.6051-02	8.7137-02	7.5222-02	6.0941-02	4.5212-02	2.9303-02	1.4913-02	4.2354-03
85 1.0018	1.0154-01	9.6029-02	8.7096-02	7.5166-02	6.0884-02	4.5170-02	2.9293-02	1.4934-02	4.2638-03
80 1.0090	1.0152-01	9.5936-02	8.6912-02	7.4897-02	6.0565-02	4.4861-02	2.9055-02	1.4806-02	4.2304-03
75 1.0222	1.0147-01	9.5762-02	8.6564-02	7.4380-02	5.9937-02	4.4223-02	2.8527-02	1.4478-02	4.1206-03
70 1.0418	1.0140-01	9.5499-02	8.6038-02	7.3591-02	5.8968-02	4.3225-02	2.7680-02	1.3936-02	3.9309-03
65 1.0677	1.0131-01	9.5141-02	8.5318-02	7.2509-02	5.7632-02	4.1837-02	2.6491-02	1.3168-02	3.6622-03
60 1.1000	1.0119-01	9.4683-02	8.4395-02	7.1118-02	5.5910-02	4.0041-02	2.4947-02	1.2168-02	3.3104-03
55 1.1378	1.0104-01	9.4130-02	8.3281-02	6.9435-02	5.3819-02	3.7857-02	2.3066-02	1.0951-02	2.8862-03
50 1.1783	1.0088-01	9.3520-02	8.2046-02	6.7565-02	5.1491-02	3.5418-02	2.0963-02	9.5885-03	2.4079-03
45 1.2138	1.0073-01	9.2970-02	8.0929-02	6.5861-02	4.9353-02	3.3157-02	1.8994-02	8.3023-03	1.9602-03
40 1.2276	1.0068-01	9.2764-02	8.0496-02	6.5173-02	4.8443-02	3.2136-02	1.8043-02	7.6304-03	1.7023-03
35 1.2022	1.0079-01	9.3200-02	8.1360-02	6.6440-02	4.9955-02	3.3631-02	1.9230-02	8.3128-03	1.8759-03
30 1.1518	1.0101-01	9.4019-02	8.3011-02	6.8933-02	5.3049-02	3.6862-02	2.2007-02	1.0093-02	2.5368-03
25 1.1030	1.0121-01	9.4779-02	8.4556-02	7.1292-02	5.6020-02	4.0028-02	2.4811-02	1.1983-02	3.1618-03
20 1.0642	1.0137-01	9.5362-02	8.5747-02	7.3122-02	5.8341-02	4.2519-02	2.7041-02	1.3536-02	3.8279-03
15 1.0353	1.0148-01	9.5783-02	8.6608-02	7.4448-02	6.0027-02	4.4334-02	2.8660-02	1.4648-02	4.3300-03
10 1.0154	1.0155-01	9.6066-02	8.7188-02	7.5342-02	6.1167-02	4.5560-02	2.9745-02	1.5357-02	4.5399-03
5 1.0038	1.0160-01	9.6229-02	8.7522-02	7.5859-02	6.1826-02	4.6268-02	3.0366-02	1.5744-02	4.6098-03
0 1.0000	1.0161-01	9.6282-02	8.7631-02	7.6028-02	6.2041-02	4.6499-02	3.0568-02	1.5867-02	4.6333-03
90 1.0000	6.8259-03	1.2867-02	1.7406-02	1.9873-02	1.9920-02	1.7519-02	1.3062-02	7.4790-03	2.3499-03
85 1.0018	6.8118-03	1.2839-02	1.7369-02	1.9830-02	1.9880-02	1.7491-02	1.3055-02	7.4921-03	2.3671-03
80 1.0090	6.7816-03	1.2778-02	1.7275-02	1.9710-02	1.9748-02	1.7368-02	1.2969-02	7.4472-03	2.3579-03
75 1.0222	6.7370-03	1.2684-02	1.7127-02	1.9511-02	1.9513-02	1.7131-02	1.2767-02	7.3242-03	2.3163-03
70 1.0418	6.6765-03	1.2554-02	1.6920-02	1.9224-02	1.9167-02	1.6768-02	1.2451-02	7.1151-03	2.2407-03
65 1.0677	6.5961-03	1.2382-02	1.6641-02	1.8837-02	1.8692-02	1.6263-02	1.2001-02	6.8116-03	2.1301-03
60 1.1000	6.4890-03	1.2155-02	1.6276-02	1.8330-02	1.8071-02	1.5597-02	1.1401-02	6.4026-03	1.9783-03
55 1.1378	6.3432-03	1.1851-02	1.5800-02	1.7680-02	1.7282-02	1.4754-02	1.0640-02	5.8797-03	1.7842-03
50 1.1783	6.1374-03	1.1436-02	1.5174-02	1.6859-02	1.6312-02	1.3736-02	9.7282-03	5.2517-03	1.5465-03
45 1.2138	5.8324-03	1.0846-02	1.4339-02	1.5836-02	1.5183-02	1.2610-02	8.7511-03	4.5875-03	1.2976-03
40 1.2276	5.3638-03	9.9818-03	1.3208-02	1.4594-02	1.3979-02	1.1568-02	7.9568-03	4.0944-03	1.1173-03
35 1.2022	4.6950-03	8.7829-03	1.1724-02	1.3115-02	1.2768-02	1.0781-02	7.5973-03	4.0206-03	1.1219-03
30 1.1518	3.9309-03	7.4084-03	1.0015-02	1.1414-02	1.1398-02	9.9532-03	7.3309-03	4.1138-03	1.2590-03
25 1.1030	3.1888-03	6.0490-03	8.2693-03	9.5779-03	9.7758-03	8.7846-03	6.7146-03	3.9532-03	1.2761-03
20 1.0642	2.4937-03	4.7538-03	6.5532-03	7.6818-03	7.9664-03	7.3054-03	5.7274-03	3.4819-03	1.1768-03
15 1.0353	1.8380-03	3.5162-03	4.8760-03	5.7641-03	6.0439-03	5.6189-03	4.7786-03	2.7776-03	9.6919-04
10 1.0154	1.2105-03	2.3212-03	3.2315-03	3.8415-03	4.0576-03	3.8051-03	3.0642-03	1.9223-03	6.7726-04
5 1.0038	6.0087-04	1.1538-03	1.6099-03	1.9199-03	2.0359-03	1.9189-03	1.5540-03	9.8051-04	3.4558-04

ALPHA = 1.60 BETA = 10.00 A = 1.00 B = 1.00 CULOAD=0.002 QLOAD=0.004

CENTER DEFLECTION = 0.10340885

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	1.0000	1.0838-01	1.0892-01	1.0454-01	9.5095-02	8.0861-02	6.2730-02	4.2363-02	2.2392-02	0.5853-03
85	1.0018	1.0836-01	1.0887-01	1.0447-01	9.4997-02	8.0764-02	6.2662-02	4.2348-02	2.2426-02	0.6308-03
80	1.0090	1.0830-01	1.0871-01	1.0419-01	9.4608-02	8.0313-02	6.2228-02	4.2019-02	2.2253-02	0.5883-03
75	1.0222	1.0821-01	1.0845-01	1.0369-01	9.3891-02	7.9450-02	6.1355-02	4.1294-02	2.1802-02	0.4370-03
70	1.0418	1.0808-01	1.0805-01	1.0296-01	9.2815-02	7.8135-02	5.9994-02	4.0130-02	2.1051-02	0.1716-03
65	1.0677	1.0790-01	1.0752-01	1.0196-01	9.1345-02	7.6324-02	5.8101-02	3.8492-02	1.9980-02	5.7923-03
60	1.1000	1.0767-01	1.0684-01	1.0067-01	8.9448-02	7.3980-02	5.5639-02	3.6348-02	1.8571-02	5.2887-03
55	1.1378	1.0738-01	1.0598-01	9.9081-02	8.7115-02	7.1101-02	5.2611-02	3.3707-02	1.6831-02	4.6704-03
50	1.1783	1.0701-01	1.0496-01	9.7220-02	8.4424-02	6.7804-02	4.9154-02	3.0691-02	1.4840-02	3.9544-03
45	1.2138	1.0656-01	1.0382-01	9.5268-02	8.1697-02	6.4535-02	4.5767-02	2.7745-02	1.2890-02	3.2578-03
40	1.2276	1.0604-01	1.0275-01	9.3704-02	7.9766-02	6.2422-02	4.3704-02	2.5994-02	1.1725-02	2.8197-03
35	1.2022	1.0549-01	1.0198-01	9.3083-02	7.9555-02	6.2723-02	4.4412-02	2.6827-02	1.2333-02	2.9978-03
30	1.1518	1.0494-01	1.0143-01	9.3026-02	8.0348-02	6.4447-02	4.6816-02	2.9338-02	1.4207-02	3.7957-03
25	1.1030	1.0440-01	1.0083-01	9.2825-02	8.0870-02	6.5795-02	4.8812-02	3.1326-02	1.5936-02	4.4379-03
20	1.0642	1.0386-01	1.0012-01	9.2301-02	8.0804-02	6.6307-02	4.9825-02	3.2768-02	1.7018-02	5.0047-03
15	1.0353	1.0332-01	9.9299-02	9.1484-02	8.0212-02	6.6071-02	4.9953-02	3.3139-02	1.7426-02	5.2992-03
10	1.0154	1.0276-01	9.8387-02	9.0419-02	7.9184-02	6.5224-02	4.9365-02	3.2809-02	1.7279-02	5.2171-03
5	1.0038	1.0220-01	9.7383-02	8.9132-02	7.7779-02	6.3862-02	4.8187-02	3.1920-02	1.6724-02	4.9554-03
0	1.0000	1.0161-01	9.6282-02	8.7631-02	7.6028-02	6.2041-02	4.6499-02	3.0568-02	1.5867-02	4.6333-03
-5	1.0038	1.0100-01	9.5075-02	8.5912-02	7.3939-02	5.9790-02	4.4349-02	2.8812-02	1.4763-02	4.2642-03
-10	1.0154	1.0034-01	9.3745-02	8.3956-02	7.1501-02	5.7110-02	4.1755-02	2.6681-02	1.3434-02	3.8626-03
-15	1.0353	9.9641-02	9.2275-02	8.1732-02	6.8684-02	5.3984-02	3.8715-02	2.4181-02	1.1870-02	3.3608-03
-20	1.0642	9.8874-02	9.0609-02	7.9194-02	6.5440-02	5.0374-02	3.5214-02	2.1313-02	1.0054-02	2.6512-03
-25	1.1030	9.8025-02	8.8730-02	7.6286-02	6.1714-02	4.6244-02	3.1243-02	1.8097-02	0.8296-03	1.8857-03
-30	1.1518	9.7081-02	8.6610-02	7.2495-02	5.7519-02	4.1651-02	2.6909-02	1.4677-02	5.9795-03	1.2778-03
-35	1.2022	9.6099-02	8.4417-02	6.9636-02	5.3325-02	3.7187-02	2.2850-02	1.1633-02	4.2922-03	7.5400-04
-40	1.2276	9.5313-02	8.2782-02	6.7288-02	5.0579-02	3.4464-02	2.0568-02	1.0086-02	3.5360-03	5.8502-04
-45	1.2138	9.4898-02	8.2124-02	6.6590-02	5.0025-02	3.4170-02	2.0547-02	1.0243-02	3.7148-03	6.6262-04
-50	1.1783	9.4739-02	8.2084-02	6.6872-02	5.0707-02	3.5179-02	2.1682-02	1.1234-02	4.3369-03	8.6141-04
-55	1.1378	9.4695-02	8.2279-02	6.7481-02	5.1754-02	3.6537-02	2.3103-02	1.2424-02	5.0713-03	1.1020-03
-60	1.1000	9.4697-02	8.2528-02	6.8119-02	5.2788-02	3.7839-02	2.4444-02	1.3543-02	5.7657-03	1.3321-03
-65	1.0677	9.4711-02	8.2759-02	6.8677-02	5.3672-02	3.8940-02	2.5574-02	1.4490-02	6.3567-03	1.5322-03
-70	1.0418	9.4727-02	8.2945-02	6.9118-02	5.4367-02	3.9802-02	2.6457-02	1.5229-02	6.8212-03	1.6903-03
-75	1.0222	9.4736-02	8.3078-02	6.9437-02	5.4869-02	4.0423-02	2.7092-02	1.5760-02	7.1542-03	1.8043-03
-80	1.0090	9.4738-02	8.3158-02	6.9637-02	5.5187-02	4.0818-02	2.7493-02	1.6091-02	7.3583-03	1.8726-03
-85	1.0018	9.4733-02	8.3190-02	6.9727-02	5.5336-02	4.1003-02	2.7679-02	1.6238-02	7.4420-03	1.8967-03
-90	1.0000	9.4725-02	8.3184-02	6.9731-02	5.5349-02	4.1021-02	2.7693-02	1.6242-02	7.4335-03	1.8856-03

ALPHA = 1.60 BETA = 10.00 A = 1.00 B = 2.00 CULOAD=0.002 QLOAD=0.0

CENTER DEFLECTION = 0.21224926

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	2.0000	2.1043-01	2.0471-01	1.9436-01	1.7834-01	1.5554-01	1.2541-01	8.8832-02	4.9453-02	1.5278-02
85	1.9951	2.1032-01	2.0432-01	1.9357-01	1.7714-01	1.5408-01	1.2398-01	8.7783-02	4.9044-02	1.5361-02
80	1.9903	2.1000-01	2.0310-01	1.9105-01	1.7323-01	1.4911-01	1.1871-01	8.3274-02	4.6235-02	1.4461-02
75	1.9849	2.0948-01	2.0111-01	1.8694-01	1.6682-01	1.4089-01	1.0984-01	7.5438-02	4.1052-02	1.2607-02
70	1.9724	2.0880-01	1.9852-01	1.8160-01	1.5854-01	1.3028-01	9.8380-02	6.5221-02	3.4200-02	1.0119-02
65	1.9383	2.0807-01	1.9574-01	1.7542-01	1.4979-01	1.1914-01	8.6399-02	5.4565-02	2.7049-02	7.5203-03
60	1.8562	2.0751-01	1.9363-01	1.7165-01	1.4328-01	1.1096-01	7.7691-02	4.6866-02	2.1884-02	5.6343-03
55	1.7120	2.0736-01	1.9309-01	1.7058-01	1.4174-01	1.0912-01	7.5829-02	4.5267-02	2.0800-02	5.2107-03
50	1.5504	2.0749-01	1.9358-01	1.7163-01	1.4341-01	1.1134-01	7.8317-02	4.7560-02	2.2376-02	5.7871-03
45	1.4134	2.0765-01	1.9419-01	1.7288-01	1.4537-01	1.1388-01	8.1099-02	5.0091-02	2.4121-02	6.4416-03
40	1.3053	2.0778-01	1.9467-01	1.7386-01	1.4689-01	1.1581-01	8.3182-02	5.1958-02	2.5390-02	6.9133-03
35	1.2208	2.0787-01	1.9502-01	1.7458-01	1.4798-01	1.1719-01	8.4656-02	5.3257-02	2.6256-02	7.2279-03
30	1.1547	2.0794-01	1.9524-01	1.7511-01	1.4878-01	1.1819-01	8.5701-02	5.4164-02	2.6850-02	7.4386-03
25	1.1034	2.0799-01	1.9547-01	1.7549-01	1.4936-01	1.1891-01	8.6450-02	5.4806-02	2.7263-02	7.5824-03
20	1.0642	2.0803-01	1.9561-01	1.7578-01	1.4979-01	1.1943-01	8.6986-02	5.5200-02	2.7551-02	7.6814-03
15	1.0353	2.0805-01	1.9571-01	1.7598-01	1.5009-01	1.1979-01	8.7362-02	5.5376-02	2.7750-02	7.7487-03
10	1.0154	2.0807-01	1.9578-01	1.7611-01	1.5028-01	1.2004-01	8.7611-02	5.5784-02	2.7880-02	7.7923-03
5	1.0038	2.0808-01	1.9582-01	1.7619-01	1.5040-01	1.2018-01	8.7753-02	5.5902-02	2.7954-02	7.8167-03
0	1.0000	2.0808-01	1.9583-01	1.7621-01	1.5044-01	1.2022-01	8.7799-02	5.5940-02	2.7977-02	7.8246-03
-5	1.0038	2.0808-01	1.9582-01	1.7615-01	1.5040-01	1.2018-01	8.7753-02	5.5902-02	2.7954-02	7.8167-03
-10	1.0154	2.0807-01	1.9578-01	1.7611-01	1.5028-01	1.2004-01	8.7611-02	5.5784-02	2.7880-02	7.7923-03
-15	1.0353	2.0805-01	1.9571-01	1.7598-01	1.5009-01	1.1979-01	8.7362-02	5.5376-02	2.7750-02	7.7487-03
-20	1.0642	2.0803-01	1.9561-01	1.7578-01	1.4979-01	1.1943-01	8.6986-02	5.5200-02	2.7551-02	7.6814-03
-25	1.1034	2.0799-01	1.9547-01	1.7549-01	1.4936-01	1.1891-01	8.6450-02	5.4806-02	2.7263-02	7.5824-03
-30	1.1547	2.0794-01	1.9524-01	1.7511-01	1.4878-01	1.1819-01	8.5701-02	5.4164-02	2.6850-02	7.4386-03
-35	1.2208	2.0787-01	1.9502-01	1.7458-01	1.4798-01	1.1719-01	8.4656-02	5.3257-02	2.6256-02	7.2279-03
-40	1.3053	2.0778-01	1.9467-01	1.7386-01	1.4689-01	1.1581-01	8.3182-02	5.1958-02	2.5390-02	6.9133-03
-45	1.4134	2.0765-01	1.9419-01	1.7288-01	1.4537-01	1.1388-01	8.1099-02	5.0091-02	2.4121-02	6.4416-03
-50	1.5504	2.0749-01	1.9358-01	1.7163-01	1.4341-01	1.1134-01	7.8317-02	4.7560-02	2.2376-02	5.7871-03
-55	1.7120	2.0736-01	1.9309-01	1.7058-01	1.4174-01	1.0912-01	7.5829-02	4.5267-02	2.0800-02	5.2107-03
-60	1.8562	2.0751-01	1.9363-01	1.7165-01	1.4328-01	1.1096-01	7.7691-02	4.6866-02	2.1884-02	5.6343-03
-65	1.9383	2.0807-01	1.9574-01	1.7542-01	1.4979-01	1.1914-01	8.6399-02	5.4565-02	2.7049-02	7.5203-03
-70	1.9724	2.0880-01	1.9852-01	1.8160-01	1.5854-01	1.3028-01	9.8380-02	6.5221-02	3.4200-02	1.0119-02
-75	1.9849	2.0948-01	2.0111-01	1.8694-01	1.6682-01	1.4089-01	1.0984-01	7.5438-02	4.1052-02	1.2607-02
-80	1.9903	2.1000-01	2.0310-01	1.9105-01	1.7323-01	1.4911-01	1.1871-01	8.3274-02	4.6235-02	1.4461-02
-85	1.9951	2.1032-01	2.0432-01	1.9357-01	1.7714-01	1.5408-01	1.2398-01	8.7783-02	4.9044-02	1.5361-02
-90	2.0000	2.1043-01	2.0471-01	1.9436-01	1.7834-01	1.5554-01	1.2541-01	8.8832-02	4.9453-02	1.5278-02

ALPHA = 1.60 BETA = 10.00 A = 1.00 B = 2.00 CULCAD=0.002 QLLCAD=0.004

CENTER DEFLECTION = 0.21224926

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.1043-01	2.0471-01	1.9436-01	1.7839-01	1.5554-01	1.2541-01	8.8832-02	4.9453-02	1.5278-02
85 1.9951	2.1032-01	2.0432-01	1.9357-01	1.7714-01	1.5408-01	1.2398-01	8.7785-02	4.9044-02	1.5361-02
80 1.9903	2.1000-01	2.0310-01	1.9105-01	1.7323-01	1.4911-01	1.1871-01	8.3274-02	4.6235-02	1.4461-02
75 1.9849	2.0948-01	2.0111-01	1.8694-01	1.6682-01	1.4089-01	1.0964-01	7.5438-02	4.1052-02	1.2607-02
70 1.9724	2.0880-01	1.9852-01	1.8160-01	1.5854-01	1.3028-01	9.8380-02	6.5221-02	3.4200-02	1.0119-02
65 1.9383	2.0807-01	1.9574-01	1.7592-01	1.4979-01	1.1914-01	8.6399-02	5.4505-02	2.7049-02	7.5203-03
60 1.8562	2.0751-01	1.9363-01	1.7165-01	1.4328-01	1.1096-01	7.7691-02	4.6866-02	2.1884-02	5.6343-03
55 1.7120	2.0736-01	1.9309-01	1.7058-01	1.4174-01	1.0912-01	7.5829-02	4.5267-02	2.0800-02	5.2107-03
50 1.5504	2.0749-01	1.9358-01	1.7163-01	1.4341-01	1.1134-01	7.8317-02	4.7500-02	2.2376-02	5.7871-03
45 1.4134	2.0765-01	1.9419-01	1.7288-01	1.4537-01	1.1388-01	8.1099-02	5.0091-02	2.4121-02	6.4416-03
40 1.3053	2.0778-01	1.9467-01	1.7386-01	1.4689-01	1.1581-01	8.3182-02	5.1958-02	2.5390-02	6.9133-03
35 1.2208	2.0787-01	1.9502-01	1.7458-01	1.4798-01	1.1719-01	8.4656-02	5.3257-02	2.6256-02	7.2279-03
30 1.1547	2.0794-01	1.9528-01	1.7511-01	1.4878-01	1.1819-01	8.5701-02	5.4164-02	2.6850-02	7.4386-03
25 1.1034	2.0799-01	1.9547-01	1.7549-01	1.4936-01	1.1891-01	8.6450-02	5.4806-02	2.7263-02	7.5824-03
20 1.0642	2.0803-01	1.9561-01	1.7578-01	1.4979-01	1.1943-01	8.6986-02	5.5260-02	2.7551-02	7.6814-03
15 1.0353	2.0805-01	1.9571-01	1.7598-01	1.5009-01	1.1979-01	8.7362-02	5.5576-02	2.7750-02	7.7487-03
10 1.0154	2.0807-01	1.9578-01	1.7611-01	1.5028-01	1.2004-01	8.7611-02	5.5784-02	2.7880-02	7.7923-03
5 1.0038	2.0808-01	1.9582-01	1.7619-01	1.5040-01	1.2018-01	8.7753-02	5.5902-02	2.7954-02	7.8167-03
0 1.0000	2.0808-01	1.9583-01	1.7621-01	1.5044-01	1.2022-01	8.7799-02	5.5940-02	2.7977-02	7.8246-03
90 2.0000	6.8937-02	1.3250-01	1.8501-01	2.2039-01	2.3257-01	2.1676-01	1.7192-01	1.0473-01	3.4813-02
85 1.9951	6.8477-02	1.3147-01	1.8324-01	2.1782-01	2.2939-01	2.1351-01	1.6943-01	1.0365-01	3.4948-02
80 1.9903	6.7443-02	1.2898-01	1.7868-01	2.1074-01	2.1999-01	2.0300-01	1.5993-01	9.7444-02	3.2867-02
75 1.9849	6.5829-02	1.2509-01	1.7150-01	1.9950-01	2.0489-01	1.8574-01	1.4376-01	8.6172-02	2.8647-02
70 1.9724	6.3459-02	1.1958-01	1.6169-01	1.8456-01	1.8511-01	1.6325-01	1.2258-01	7.1193-02	2.2942-02
65 1.9383	5.9968-02	1.1200-01	1.4921-01	1.6674-01	1.6265-01	1.3853-01	9.9739-02	5.5164-02	1.6843-02
60 1.8562	5.4767-02	1.0167-01	1.3405-01	1.4754-01	1.4092-01	1.1665-01	8.0821-02	4.2463-02	1.2120-02
55 1.7120	4.7779-02	8.8705-02	1.1697-01	1.2874-01	1.2295-01	1.0167-01	7.0212-02	3.6582-02	1.0245-02
50 1.5504	4.0514-02	7.5497-02	1.0019-01	1.1133-01	1.0771-01	9.0628-02	6.4029-02	3.4361-02	9.9927-03
45 1.4134	3.4132-02	6.3833-02	8.5243-02	9.5579-02	9.3618-02	8.0058-02	5.7765-02	3.1861-02	9.6066-03
40 1.3053	2.8681-02	5.3788-02	7.2162-02	8.1453-02	8.0493-02	6.9620-02	5.0954-02	2.8609-02	8.8208-03
35 1.2208	2.3951-02	4.9009-02	6.0589-02	6.8717-02	6.8330-02	5.9559-02	4.4001-02	2.4982-02	7.8049-03
30 1.1547	1.9759-02	3.7186-02	5.0181-02	5.7109-02	5.7038-02	4.9983-02	3.7159-02	2.1250-02	6.6931-03
25 1.1034	1.5965-02	3.0078-02	4.0662-02	4.6391-02	4.6480-02	4.0884-02	3.0527-02	1.7541-02	5.5538-03
20 1.0642	1.2464-02	2.3502-02	3.1814-02	3.6362-02	3.6514-02	3.2204-02	2.4118-02	1.3904-02	4.4173-03
15 1.0353	9.1777-03	1.7315-02	2.3461-02	2.6849-02	2.7004-02	2.3860-02	1.7906-02	1.0346-02	3.2943-03
10 1.0154	6.0403-03	1.1400-02	1.5456-02	1.7703-02	1.7824-02	1.5768-02	1.1850-02	6.8561-03	2.1862-03
5 1.0038	2.9972-03	5.6580-03	7.6738-03	8.7938-03	8.8592-03	7.8430-03	5.8982-03	3.4154-03	1.0900-03

ALPHA = 1.60 BETA = 10.00 A = 1.00 B = 2.00 CULCAD=0.002 QLLCAD=0.004

CENTER DEFLECTION = 0.21224926

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.7936-01	3.3721-01	3.7937-01	3.9873-01	3.8812-01	3.4217-01	2.6077-01	1.5418-01	5.0092-02
85 1.9951	2.7880-01	3.3578-01	3.7681-01	3.9496-01	3.8347-01	3.3749-01	2.5721-01	1.5270-01	5.0309-02
80 1.9903	2.7745-01	3.3208-01	3.6973-01	3.8397-01	3.6910-01	3.2171-01	2.4320-01	1.4368-01	4.7328-02
75 1.9849	2.7531-01	3.2619-01	3.5844-01	3.6633-01	3.4578-01	2.9559-01	2.1920-01	1.2722-01	4.1254-02
70 1.9724	2.7226-01	3.1809-01	3.4329-01	3.4310-01	3.1539-01	2.6163-01	1.8780-01	1.0539-01	3.3062-02
65 1.9383	2.6804-01	3.0774-01	3.2512-01	3.1652-01	2.8179-01	2.2493-01	1.5430-01	8.2213-02	2.4363-02
60 1.8562	2.6228-01	2.9530-01	3.0570-01	2.9082-01	2.5188-01	1.9434-01	1.2769-01	6.4347-02	1.7755-02
55 1.7120	2.5514-01	2.8179-01	2.8755-01	2.7088-01	2.3207-01	1.7750-01	1.1548-01	5.7382-02	1.5456-02
50 1.5504	2.4800-01	2.6908-01	2.7182-01	2.5474-01	2.1905-01	1.6894-01	1.1159-01	5.6737-02	1.5780-02
45 1.4134	2.4178-01	2.5802-01	2.5813-01	2.4095-01	2.0750-01	1.6116-01	1.0786-01	5.5982-02	1.6048-02
40 1.3053	2.3646-01	2.4846-01	2.4602-01	2.2834-01	1.9630-01	1.5280-01	1.0291-01	5.3999-02	1.5734-02
35 1.2208	2.3182-01	2.4003-01	2.3517-01	2.1670-01	1.8552-01	1.4421-01	9.7258-02	5.1238-02	1.5033-02
30 1.1547	2.2770-01	2.3247-01	2.2529-01	2.0589-01	1.7523-01	1.3568-01	9.1323-02	4.8100-02	1.4132-02
25 1.1034	2.2395-01	2.2555-01	2.1616-01	1.9575-01	1.6539-01	1.2733-01	8.5333-02	4.4804-02	1.3136-02
20 1.0642	2.2049-01	2.1912-01	2.0759-01	1.8615-01	1.5594-01	1.1919-01	7.9378-02	4.1455-02	1.2099-02
15 1.0353	2.1723-01	2.1303-01	1.9944-01	1.7693-01	1.4680-01	1.1122-01	7.3442-02	3.8096-02	1.1043-02
10 1.0154	2.1411-01	2.0718-01	1.9157-01	1.6799-01	1.3786-01	1.0338-01	6.7633-02	3.4736-02	9.9785-03
5 1.0038	2.1108-01	2.0148-01	1.8386-01	1.5919-01	1.2904-01	9.5596-02	6.1800-02	3.1369-02	8.9072-03
0 1.0000	2.0808-01	1.9583-01	1.7621-01	1.5044-01	1.2022-01	8.7799-02	5.5940-02	2.7977-02	7.8246-03
-5 1.0038	2.0508-01	1.9016-01	1.6851-01	1.4161-01	1.1132-01	7.9910-02	5.0004-02	2.4538-02	6.7267-03
-10 1.0154	2.0203-01	1.8438-01	1.6065-01	1.3258-01	1.0221-01	7.1842-02	4.3934-02	2.1024-02	5.6060-03
-15 1.0353	1.9888-01	1.7840-01	1.5251-01	1.2324-01	9.2789-02	6.3502-02	3.7670-02	1.7404-02	4.4544-03
-20 1.0642	1.9556-01	1.7211-01	1.4396-01	1.1342-01	8.2913-02	5.4783-02	3.1142-02	1.3647-02	3.2641-03
-25 1.1034	1.9202-01	1.6540-01	1.3483-01	1.0297-01	7.2427-02	4.5566-02	2.4279-02	9.7213-03	2.0286-03
-30 1.1547	1.8818-01	1.5810-01	1.2493-01	9.1672-02	6.1149-02	3.5719-02	1.7005-02	5.5999-03	7.4552-04
-35 1.2208	1.8392-01	1.5001-01	1.1399-01	7.9266-02	4.8862-02	2.5097-02	9.2565-03	1.2746-03	-5.7707-04
-40 1.3053	1.7909-01	1.4088-01	1.0170-01	6.5432-02	3.5315-02	1.3562-02	1.0040-03	-3.2183-03	-1.9075-03
-45 1.4134	1.7352-01	1.3035-01	8.7639-02	4.9755-02	2.0262-02	1.0406-03	-7.6741-03	-7.7402-03	-3.1650-03
-50 1.5504	1.6698-01	1.1808-01	7.1435-02	3.2086-02	3.6343-03	-1.2311-02	-1.0469-02	-1.1984-02	-4.2056-03
-55 1.7120	1.5958-01	1.0438-01	5.3615-02	1.2995-02	-1.3825-02	-2.5840-02	-2.4945-02	-1.5783-02	-5.0347-03
-60 1.8562	1.5274-01	9.1960-02	3.7595-02	-4.2527-03	-2.9957-02	-3.8958-02	-3.3955-02	-2.0579-02	-6.4859-03
-65 1.9383	1.4810-01	8.3739-02	2.6711-02	-1.6949-02	-4.3510-02	-5.2135-02	-4.5173-02	-2.8115-02	-9.3225-03
-70 1.9724	1.4534-01	7.8940-02	1.9910-02	-2.6013-02	-5.4830-02	-6.4872-02	-5.7361-02	-3.6994-02	-1.2823-02
-75 1.9849	1.4365-01	7.6019-02	1.5437-02	-3.2680-02	-6.4002-02	-7.5899-02	-6.8325-02	-4.5120-02	-1.6039-02
-80 1.9903	1.4256-01	7.4117-02	1.2371-02	-3.7507-02	-7.0883-02	-8.4294-02	-7.6655-02	-5.1209-02	-1.8406-02
-85 1.9951	1.4185-01	7.2852-02	1.0331-02	-4.0679-02	-7.5310-02	-8.9539-02	-8.1640-02	-5.4610-02	-1.9587-02
-90 2.0000	1.4149-01	7.2204-02	8.3477-03	-4.2056-02	-7.7032-02	-9.1351-02	-8.3090-02	-5.5275-02	-1.9535-02

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

ALPHA = 2.00 BETA = 2.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLLOAD=0.0

CENTER DEFLECTION = 0.08237322

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
85 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
80 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
75 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
70 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
65 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
60 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
55 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
50 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
45 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
40 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
35 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
30 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
25 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
20 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
15 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
10 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
5 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
0 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-5 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-10 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-15 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-20 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-25 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-30 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-35 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-40 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-45 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-50 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-55 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-60 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-65 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-70 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-75 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-80 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-85 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-90 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03

ALPHA = 2.00 BETA = 2.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLLOAD=0.004

CENTER DEFLECTION = 0.08237322

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
85 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
80 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
75 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
70 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
65 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
60 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
55 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
50 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
45 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
40 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
35 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
30 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
25 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
20 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
15 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
10 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
5 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
0 1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
90 1.0000	5.3823-03	1.0122-02	1.3643-02	1.5499-02	1.5445-02	1.3496-02	9.9985-03	5.6936-03	1.7842-03
85 1.0000	5.3618-03	1.0084-02	1.3591-02	1.5440-02	1.5386-02	1.3445-02	9.9604-03	5.6720-03	1.7774-03
80 1.0000	5.3005-03	9.9682-03	1.3435-02	1.5264-02	1.5210-02	1.3291-02	9.8466-03	5.6071-03	1.7571-03
75 1.0000	5.1989-03	9.7771-03	1.3178-02	1.4971-02	1.4919-02	1.3036-02	9.6578-03	5.4996-03	1.7234-03
70 1.0000	5.0577-03	9.5116-03	1.2820-02	1.4565-02	1.4514-02	1.2682-02	9.3955-03	5.3503-03	1.6766-03
65 1.0000	4.8780-03	9.1737-03	1.2364-02	1.4047-02	1.3998-02	1.2232-02	9.0617-03	5.1602-03	1.6170-03
60 1.0000	4.6612-03	8.7659-03	1.1815-02	1.3423-02	1.3376-02	1.1688-02	8.6589-03	4.9308-03	1.5452-03
55 1.0000	4.4089-03	8.2915-03	1.1175-02	1.2696-02	1.2652-02	1.1055-02	8.1903-03	4.6640-03	1.4615-03
50 1.0000	4.1231-03	7.7539-03	1.0451-02	1.1873-02	1.1832-02	1.0339-02	7.6593-03	4.3616-03	1.3668-03
45 1.0000	3.8058-03	7.1573-03	9.6468-03	1.0960-02	1.0921-02	9.5431-03	7.0700-03	4.0260-03	1.2616-03
40 1.0000	3.4597-03	6.5063-03	8.7693-03	9.9628-03	9.9278-03	8.6751-03	6.4269-03	3.6598-03	1.1469-03
35 1.0000	3.0871-03	5.8058-03	7.8251-03	8.8901-03	8.8589-03	7.7410-03	5.7349-03	3.2657-03	1.0234-03
30 1.0000	2.6911-03	5.0610-03	6.8213-03	7.7497-03	7.7225-03	6.7480-03	4.9942-03	2.8468-03	8.9210-04
25 1.0000	2.2746-03	4.2778-03	5.7656-03	6.5503-03	6.5273-03	5.7073-03	4.2255-03	2.4062-03	7.5404-04
20 1.0000	1.8408-03	3.4619-03	4.6661-03	5.3011-03	5.2825-03	4.6159-03	3.4197-03	1.9473-03	6.1023-04
15 1.0000	1.3930-03	2.6198-03	3.5310-03	4.0115-03	3.9975-03	3.4930-03	2.5878-03	1.4736-03	4.6179-04
10 1.0000	9.3462-04	1.7577-03	2.3690-03	2.6914-03	2.6820-03	2.3636-03	1.7362-03	9.8864-04	3.0982-04
5 1.0000	4.6910-04	8.8219-04	1.1890-03	1.3509-03	1.3461-03	1.1763-03	8.7142-04	4.9623-04	1.5550-04

ALPHA = 2.00 BETA = 2.00 A = 1.00 B = 1.00 CULGAD=0.002 LLLGAD=0.004

CENTER DEFLECTION = 0.08237322

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	1.0000	8.6116-02	8.6037-02	8.1856-02	7.3622-02	6.1780-02	4.7236-02	3.1424-02	1.6369-02	4.7579-03
85	1.0000	8.6096-02	8.5999-02	8.1804-02	7.3563-02	6.1721-02	4.7185-02	3.1386-02	1.6348-02	4.7511-03
80	1.0000	8.6034-02	8.5883-02	8.1649-02	7.3386-02	6.1545-02	4.7031-02	3.1272-02	1.6283-02	4.7308-03
75	1.0000	8.5933-02	8.5692-02	8.1391-02	7.3094-02	6.1254-02	4.6776-02	3.1083-02	1.6175-02	4.6971-03
70	1.0000	8.5792-02	8.5427-02	8.1033-02	7.2687-02	6.0848-02	4.6422-02	3.0821-02	1.6026-02	4.6503-03
65	1.0000	8.5612-02	8.5089-02	8.0578-02	7.2170-02	6.0333-02	4.5972-02	3.0487-02	1.5836-02	4.5907-03
60	1.0000	8.5395-02	8.4681-02	8.0028-02	7.1545-02	5.9711-02	4.5428-02	3.0084-02	1.5606-02	4.5188-03
55	1.0000	8.5143-02	8.4207-02	7.9389-02	7.0819-02	5.8987-02	4.4795-02	2.9616-02	1.5340-02	4.4352-03
50	1.0000	8.4857-02	8.3669-02	7.8664-02	6.9996-02	5.8166-02	4.4079-02	2.9085-02	1.5037-02	4.3405-03
45	1.0000	8.4540-02	8.3073-02	7.7860-02	6.9082-02	5.7256-02	4.3283-02	2.8495-02	1.4702-02	4.2353-03
40	1.0000	8.4194-02	8.2421-02	7.6983-02	6.8085-02	5.6263-02	4.2415-02	2.7852-02	1.4335-02	4.1205-03
35	1.0000	8.3821-02	8.1721-02	7.6038-02	6.7013-02	5.5194-02	4.1481-02	2.7160-02	1.3941-02	3.9971-03
30	1.0000	8.3425-02	8.0976-02	7.5035-02	6.5872-02	5.4057-02	4.0468-02	2.6425-02	1.3522-02	3.8658-03
25	1.0000	8.3009-02	8.0193-02	7.3979-02	6.4673-02	5.2862-02	3.9444-02	2.5651-02	1.3082-02	3.7277-03
20	1.0000	8.2575-02	7.9377-02	7.2879-02	6.3424-02	5.1617-02	3.8356-02	2.4845-02	1.2623-02	3.5839-03
15	1.0000	8.2127-02	7.8535-02	7.1744-02	6.2134-02	5.0332-02	3.7233-02	2.4013-02	1.2149-02	3.4355-03
10	1.0000	8.1669-02	7.7673-02	7.0582-02	6.0814-02	4.9017-02	3.6084-02	2.3161-02	1.1664-02	3.2835-03
5	1.0000	8.1203-02	7.6797-02	6.9402-02	5.9473-02	4.7681-02	3.4916-02	2.2297-02	1.1172-02	3.1292-03
0	1.0000	8.0734-02	7.5915-02	6.8213-02	5.8123-02	4.6335-02	3.3740-02	2.1425-02	1.0676-02	2.9737-03
-5	1.0000	8.0265-02	7.5033-02	6.7024-02	5.6772-02	4.4989-02	3.2564-02	2.0554-02	1.0179-02	2.8182-03
-10	1.0000	7.9799-02	7.4157-02	6.5844-02	5.5431-02	4.3653-02	3.1397-02	1.9689-02	9.6864-03	2.6638-03
-15	1.0000	7.9341-02	7.3295-02	6.4682-02	5.4111-02	4.2337-02	3.0247-02	1.8837-02	9.2019-03	2.5119-03
-20	1.0000	7.8893-02	7.2453-02	6.3547-02	5.2821-02	4.1052-02	2.9124-02	1.8006-02	8.7282-03	2.3634-03
-25	1.0000	7.8459-02	7.1637-02	6.2448-02	5.1572-02	3.9808-02	2.8036-02	1.7200-02	8.2693-03	2.2196-03
-30	1.0000	7.8043-02	7.0854-02	6.1392-02	5.0373-02	3.8612-02	2.6992-02	1.6426-02	7.8288-03	2.0816-03
-35	1.0000	7.7647-02	7.0109-02	6.0388-02	4.9232-02	3.7476-02	2.5999-02	1.5690-02	7.4098-03	1.9503-03
-40	1.0000	7.7274-02	6.9409-02	5.9444-02	4.8160-02	3.6407-02	2.5065-02	1.4998-02	7.0158-03	1.8268-03
-45	1.0000	7.6928-02	6.8758-02	5.8566-02	4.7163-02	3.5414-02	2.4197-02	1.4355-02	6.6496-03	1.7121-03
-50	1.0000	7.6611-02	6.8161-02	5.7762-02	4.6249-02	3.4503-02	2.3402-02	1.3766-02	6.3140-03	1.6069-03
-55	1.0000	7.6325-02	6.7624-02	5.7038-02	4.5426-02	3.3683-02	2.2685-02	1.3235-02	6.0116-03	1.5121-03
-60	1.0000	7.6073-02	6.7149-02	5.6398-02	4.4700-02	3.2959-02	2.2052-02	1.2766-02	5.7447-03	1.4285-03
-65	1.0000	7.5856-02	6.6741-02	5.5849-02	4.4075-02	3.2337-02	2.1509-02	1.2364-02	5.5154-03	1.3566-03
-70	1.0000	7.5676-02	6.6404-02	5.5393-02	4.3553-02	3.1821-02	2.1058-02	1.2030-02	5.3253-03	1.2971-03
-75	1.0000	7.5535-02	6.6138-02	5.5035-02	4.3151-02	3.1416-02	2.0704-02	1.1768-02	5.1759-03	1.2503-03
-80	1.0000	7.5433-02	6.5947-02	5.4778-02	4.2859-02	3.1125-02	2.0449-02	1.1574-02	5.0684-03	1.2166-03
-85	1.0000	7.5372-02	6.5832-02	5.4623-02	4.2682-02	3.0949-02	2.0295-02	1.1465-02	5.0036-03	1.1963-03
-90	1.0000	7.5352-02	6.5793-02	5.4571-02	4.2623-02	3.0890-02	2.0244-02	1.1427-02	4.9819-03	1.1895-03

ALPHA = 2.00 BETA = 2.00 A = 1.00 B = 2.00 CULGAD=0.002 LLLGAD=0.0

CENTER DEFLECTION = 0.17870804

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	2.0000	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
85	1.9776	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
80	1.9152	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
75	1.8250	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
70	1.7207	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
65	1.6138	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
60	1.5119	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
55	1.4188	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
50	1.3364	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
45	1.2649	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
40	1.2038	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
35	1.1522	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
30	1.1094	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
25	1.0746	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
20	1.0470	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
15	1.0261	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
10	1.0115	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
5	1.0029	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
0	1.0000	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-5	1.0029	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-10	1.0115	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-15	1.0261	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-20	1.0470	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-25	1.0746	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-30	1.1094	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-35	1.1522	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-40	1.2038	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-45	1.2649	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-50	1.3364	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-55	1.4188	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-60	1.5119	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-65	1.6138	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-70	1.7207	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-75	1.8250	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-80	1.9152	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-85	1.9776	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-90	2.0000	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03

ALPHA = 2.00 BETA = 2.00 A = 1.00 B = 2.00 CULOAD=0.002 CLLLOAD=0.004

CENTER DEFLECTION = 0.17870804

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
85 1.9776	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
80 1.9152	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
75 1.8250	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
70 1.7207	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
65 1.6138	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
60 1.5119	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
55 1.4188	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
50 1.3364	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
45 1.2649	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
40 1.2038	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
35 1.1522	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
30 1.1094	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
25 1.0746	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
20 1.0470	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
15 1.0261	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
10 1.0115	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
5 1.0029	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
0 1.0000	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
90 2.0000	4.7512-02	8.9353-02	1.2043-01	1.3682-01	1.3634-01	1.1914-01	8.8262-02	5.0261-02	1.5750-02
85 1.9776	4.6801-02	8.8016-02	1.1863-01	1.3477-01	1.3430-01	1.1735-01	8.6941-02	4.9509-02	1.5514-02
80 1.9152	4.4808-02	8.4267-02	1.1358-01	1.2903-01	1.2858-01	1.1236-01	8.3238-02	4.7400-02	1.4854-02
75 1.8250	4.1878-02	7.8757-02	1.0615-01	1.2060-01	1.2017-01	1.0501-01	7.7795-02	4.4301-02	1.3882-02
70 1.7207	3.8413-02	7.2240-02	9.7367-02	1.1062-01	1.1023-01	9.6320-02	7.1358-02	4.0635-02	1.2734-02
65 1.6138	3.4747-02	6.5345-02	8.8074-02	1.0006-01	9.9709-02	8.7127-02	6.4548-02	3.6757-02	1.1518-02
60 1.5119	3.1104-02	5.8495-02	7.8841-02	8.9571-02	8.9257-02	7.7994-02	5.7781-02	3.2904-02	1.0311-02
55 1.4188	2.7611-02	5.1925-02	6.5986-02	7.9510-02	7.9232-02	6.9234-02	5.1291-02	2.9208-02	9.1528-03
50 1.3364	2.4321-02	4.5739-02	6.1648-02	7.0038-02	6.9792-02	6.0985-02	4.5180-02	2.5728-02	8.0624-03
45 1.2649	2.1248-02	3.9960-02	5.3859-02	6.1189-02	6.0974-02	5.3280-02	3.9472-02	2.2477-02	7.0437-03
40 1.2038	1.8382-02	3.4569-02	4.6593-02	5.2934-02	5.2748-02	4.6092-02	3.4147-02	1.9445-02	6.0943-03
35 1.1522	1.5700-02	2.9526-02	3.9795-02	4.5211-02	4.5053-02	3.9367-02	2.9165-02	1.6608-02	5.2045-03
30 1.1094	1.3178-02	2.4782-02	3.3402-02	3.7948-02	3.7814-02	3.3043-02	2.4480-02	1.3940-02	4.3683-03
25 1.0746	1.0788-02	2.0289-02	2.7346-02	3.1067-02	3.0958-02	2.7052-02	2.0041-02	1.1412-02	3.5763-03
20 1.0470	8.5068-03	1.5998-02	2.1563-02	2.4497-02	2.4411-02	2.1331-02	1.5803-02	8.9990-03	2.8200-03
15 1.0261	6.3091-03	1.1865-02	1.5992-02	1.8168-02	1.8105-02	1.5820-02	1.1720-02	6.6741-03	2.0914-03
10 1.0115	4.1727-03	7.8472-03	1.0577-02	1.2016-02	1.1974-02	1.0463-02	7.7514-03	4.4141-03	1.3832-03
5 1.0029	2.0764-03	3.9050-03	5.2632-03	5.9795-03	5.9585-03	5.2066-03	3.8573-03	2.1965-03	6.8832-04

ALPHA = 2.00 BETA = 2.00 A = 1.00 B = 2.00 CULOAD=0.002 CLLLOAD=0.004

CENTER DEFLECTION = 0.17870804

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.2266-01	2.5405-01	2.6842-01	2.6292-01	2.3687-01	1.9234-01	1.3474-01	7.3422-02	2.2202-02
85 1.9776	2.2195-01	2.5271-01	2.6662-01	2.6087-01	2.3482-01	1.9055-01	1.3342-01	7.2669-02	2.1966-02
80 1.9152	2.1996-01	2.4896-01	2.6156-01	2.5513-01	2.2910-01	1.8955-01	1.2972-01	7.0561-02	2.1305-02
75 1.8250	2.1703-01	2.4345-01	2.5414-01	2.4669-01	2.2070-01	1.7821-01	1.2428-01	6.7461-02	2.0334-02
70 1.7207	2.1356-01	2.3694-01	2.4535-01	2.3671-01	2.1075-01	1.6952-01	1.1784-01	6.3796-02	1.9185-02
65 1.6138	2.0990-01	2.3004-01	2.3606-01	2.2616-01	2.0023-01	1.6033-01	1.1103-01	5.9917-02	1.7970-02
60 1.5119	2.0626-01	2.2319-01	2.2683-01	2.1567-01	1.8978-01	1.5119-01	1.0426-01	5.6064-02	1.6762-02
55 1.4188	2.0276-01	2.1662-01	2.1797-01	2.0561-01	1.7975-01	1.4243-01	9.7773-02	5.2369-02	1.5604-02
50 1.3364	1.9947-01	2.1044-01	2.0964-01	1.9613-01	1.7032-01	1.3418-01	9.1662-02	4.8889-02	1.4514-02
45 1.2649	1.9640-01	2.0466-01	2.0185-01	1.8728-01	1.6150-01	1.2648-01	8.5945-02	4.5638-02	1.3495-02
40 1.2038	1.9353-01	1.9927-01	1.9458-01	1.7903-01	1.5327-01	1.1929-01	8.0629-02	4.2606-02	1.2545-02
35 1.1522	1.9085-01	1.9422-01	1.8778-01	1.7131-01	1.4558-01	1.1257-01	7.5647-02	3.9769-02	1.1656-02
30 1.1094	1.8833-01	1.8948-01	1.8139-01	1.6404-01	1.3834-01	1.0624-01	7.0962-02	3.7100-02	1.0820-02
25 1.0746	1.8594-01	1.8499-01	1.7533-01	1.5716-01	1.3148-01	1.0025-01	6.6523-02	3.4573-02	1.0028-02
20 1.0470	1.8366-01	1.8070-01	1.6955-01	1.5059-01	1.2493-01	9.4530-02	6.2285-02	3.2160-02	9.2713-03
15 1.0261	1.8146-01	1.7656-01	1.6398-01	1.4426-01	1.1863-01	8.9019-02	5.8202-02	2.9835-02	8.5428-03
10 1.0115	1.7932-01	1.7254-01	1.5856-01	1.3811-01	1.1250-01	8.3662-02	5.4233-02	2.7575-02	7.8346-03
5 1.0029	1.7723-01	1.6860-01	1.5325-01	1.3208-01	1.0648-01	7.8405-02	5.0339-02	2.5357-02	7.1397-03
0 1.0000	1.7515-01	1.6470-01	1.4799-01	1.2610-01	1.0052-01	7.3199-02	4.6482-02	2.3161-02	6.4514-03
-5 1.0029	1.7308-01	1.6079-01	1.4272-01	1.2012-01	9.4565-02	6.7992-02	4.2625-02	2.0964-02	5.7630-03
-10 1.0115	1.7098-01	1.5685-01	1.3741-01	1.1408-01	8.8549-02	6.2736-02	3.8731-02	1.8746-02	5.0681-03
-15 1.0261	1.6884-01	1.5283-01	1.3200-01	1.0793-01	8.2419-02	5.7379-02	3.4762-02	1.6486-02	4.3599-03
-20 1.0470	1.6664-01	1.4870-01	1.2643-01	1.0160-01	7.6112-02	5.1868-02	3.0679-02	1.4162-02	3.6314-03
-25 1.0746	1.6436-01	1.4441-01	1.2064-01	9.5029-02	6.9565-02	4.6147-02	2.6441-02	1.1748-02	2.8751-03
-30 1.1094	1.6197-01	1.3992-01	1.1459-01	8.8149-02	6.2709-02	4.0156-02	2.2002-02	9.2206-03	2.0830-03
-35 1.1522	1.5945-01	1.3517-01	1.0819-01	8.0885-02	5.5471-02	3.3831-02	1.7317-02	6.5524-03	1.2469-03
-40 1.2038	1.5677-01	1.3013-01	1.0140-01	7.3163-02	4.7775-02	2.7107-02	1.2335-02	3.7156-03	3.5792-04
-45 1.2649	1.5390-01	1.2474-01	9.4124-02	6.4908-02	3.9549-02	1.9919-02	7.0099-03	6.8312-04	-5.9235-04
-50 1.3364	1.5083-01	1.1896-01	8.6340-02	5.6159-02	3.0731-02	1.2214-02	1.3015-03	-2.5675-03	-1.6110-03
-55 1.4188	1.4754-01	1.1277-01	7.8002-02	4.6586-02	2.1292-02	3.9652-03	-4.8094-03	-6.0474-03	-2.7015-03
-60 1.5119	1.4405-01	1.0620-01	6.9147-02	3.6525-02	1.1267-02	-4.7949-03	-1.1299-02	-9.7430-03	-3.8596-03
-65 1.6138	1.4041-01	9.4352-02	5.4914-02	2.6036-02	8.1409-04	-1.3928-02	-1.8066-02	-1.3596-02	-3.0670-03
-70 1.7207	1.3674-01	9.2457-02	5.0622-02	1.5479-02	-9.7063-03	-2.3121-02	-2.4876-02	-1.7474-02	-6.2824-03
-75 1.8250	1.3327-01	8.5940-02	4.1838-02	5.4999-03	-1.9650-02	-1.1810-02	-3.1314-02	-2.1140-02	-7.4311-03
-80 1.9152	1.3034-01	8.0431-02	3.4412-02	-2.9369-03	-2.8057-02	-3.9157-02	-3.6756-02	-2.4239-02	-8.4023-03
-85 1.9776	1.2835-01	7.6682-02	2.9359-02	-8.6778-03	-3.3778-02	-4.4156-02	-4.0459-02	-2.6348-02	-9.0631-03
-90 2.0000	1.2764-01	7.5344-02	2.7556-02	-1.0725-02	-3.5819-02	-4.5934-02	-4.1780-02	-2.7101-02	-9.2989-03

ALPHA = 3.00 BETA = 3.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLUAD=0.0
 CENTER DEFLECTION = 0.09960683

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	9.7807-02	9.2487-02	8.3884-02	7.2420-02	5.8722-02	4.3667-02	2.8441-02	1.4608-02	4.2206-03
85 1.0036	9.7794-02	9.2438-02	8.3783-02	7.2262-02	5.8514-02	4.3434-02	2.8220-02	1.4443-02	4.1502-03
80 1.0136	9.7759-02	9.2302-02	8.3503-02	7.1825-02	5.7949-02	4.2809-02	2.7639-02	1.4027-02	3.9839-03
75 1.0287	9.7704-02	9.2094-02	8.3078-02	7.1168-02	5.7108-02	4.1895-02	2.6813-02	1.3459-02	3.7710-03
70 1.0476	9.7634-02	9.1832-02	8.2544-02	7.0352-02	5.6080-02	4.0801-02	2.5851-02	1.2823-02	3.5432-03
65 1.0684	9.7556-02	9.1538-02	8.1952-02	6.9458-02	5.4970-02	3.9644-02	2.4662-02	1.2191-02	3.3291-03
60 1.0889	9.7478-02	9.1246-02	8.1366-02	6.8581-02	5.3898-02	3.8549-02	2.3949-02	1.1626-02	3.1405-03
55 1.1064	9.7410-02	9.0993-02	8.0863-02	6.7836-02	5.2998-02	3.7646-02	2.3212-02	1.1180-02	2.9986-03
50 1.1183	9.7364-02	9.0820-02	8.0520-02	6.7331-02	5.2396-02	3.7049-02	2.2732-02	1.0895-02	2.9067-03
45 1.1225	9.7347-02	9.0759-02	8.0398-02	6.7153-02	5.2184-02	3.6841-02	2.2566-02	1.0796-02	2.8767-03
40 1.1183	9.7364-02	9.0820-02	8.0520-02	6.7331-02	5.2396-02	3.7049-02	2.2732-02	1.0895-02	2.9065-03
35 1.1064	9.7410-02	9.0993-02	8.0863-02	6.7836-02	5.2998-02	3.7646-02	2.3212-02	1.1180-02	2.9988-03
30 1.0889	9.7478-02	9.1246-02	8.1366-02	6.8581-02	5.3898-02	3.8549-02	2.3949-02	1.1626-02	3.1397-03
25 1.0684	9.7556-02	9.1538-02	8.1952-02	6.9458-02	5.4969-02	3.9644-02	2.4661-02	1.2191-02	3.3300-03
20 1.0476	9.7634-02	9.1832-02	8.2544-02	7.0352-02	5.6080-02	4.0801-02	2.5851-02	1.2823-02	3.5432-03
15 1.0287	9.7704-02	9.2094-02	8.3077-02	7.1168-02	5.7107-02	4.1895-02	2.6812-02	1.3459-02	3.7709-03
10 1.0136	9.7759-02	9.2302-02	8.3503-02	7.1825-02	5.7948-02	4.2808-02	2.7638-02	1.4027-02	3.9839-03
5 1.0036	9.7794-02	9.2438-02	8.3783-02	7.2261-02	5.8514-02	4.3434-02	2.8219-02	1.4443-02	4.1492-03
0 1.0000	9.7807-02	9.2486-02	8.3884-02	7.2420-02	5.8721-02	4.3667-02	2.8440-02	1.4607-02	4.2203-03
-5 1.0036	9.7794-02	9.2438-02	8.3783-02	7.2261-02	5.8514-02	4.3434-02	2.8219-02	1.4443-02	4.1492-03
-10 1.0136	9.7759-02	9.2302-02	8.3503-02	7.1825-02	5.7948-02	4.2808-02	2.7638-02	1.4027-02	3.9839-03
-15 1.0287	9.7704-02	9.2094-02	8.3077-02	7.1168-02	5.7107-02	4.1895-02	2.6812-02	1.3459-02	3.7709-03
-20 1.0476	9.7634-02	9.1832-02	8.2544-02	7.0352-02	5.6080-02	4.0801-02	2.5851-02	1.2823-02	3.5432-03
-25 1.0684	9.7556-02	9.1538-02	8.1952-02	6.9458-02	5.4969-02	3.9644-02	2.4661-02	1.2191-02	3.3300-03
-30 1.0889	9.7478-02	9.1246-02	8.1366-02	6.8581-02	5.3898-02	3.8549-02	2.3949-02	1.1626-02	3.1397-03
-35 1.1064	9.7410-02	9.0993-02	8.0863-02	6.7836-02	5.2998-02	3.7646-02	2.3212-02	1.1180-02	2.9988-03
-40 1.1183	9.7364-02	9.0820-02	8.0520-02	6.7331-02	5.2396-02	3.7049-02	2.2732-02	1.0895-02	2.9065-03
-45 1.1225	9.7347-02	9.0759-02	8.0398-02	6.7153-02	5.2184-02	3.6841-02	2.2566-02	1.0796-02	2.8767-03
-50 1.1183	9.7364-02	9.0820-02	8.0520-02	6.7331-02	5.2396-02	3.7049-02	2.2732-02	1.0895-02	2.9067-03
-55 1.1064	9.7410-02	9.0993-02	8.0863-02	6.7836-02	5.2998-02	3.7646-02	2.3212-02	1.1180-02	2.9986-03
-60 1.0889	9.7478-02	9.1246-02	8.1366-02	6.8581-02	5.3898-02	3.8549-02	2.3949-02	1.1626-02	3.1405-03
-65 1.0684	9.7556-02	9.1538-02	8.1952-02	6.9458-02	5.4970-02	3.9644-02	2.4662-02	1.2191-02	3.3291-03
-70 1.0476	9.7634-02	9.1832-02	8.2544-02	7.0353-02	5.6080-02	4.0801-02	2.5851-02	1.2823-02	3.5437-03
-75 1.0287	9.7704-02	9.2094-02	8.3078-02	7.1168-02	5.7108-02	4.1895-02	2.6813-02	1.3459-02	3.7710-03
-80 1.0136	9.7759-02	9.2302-02	8.3503-02	7.1825-02	5.7949-02	4.2809-02	2.7639-02	1.4027-02	3.9839-03
-85 1.0036	9.7794-02	9.2438-02	8.3783-02	7.2262-02	5.8514-02	4.3434-02	2.8220-02	1.4443-02	4.1502-03
-90 1.0000	9.7807-02	9.2487-02	8.3884-02	7.2420-02	5.8722-02	4.3667-02	2.8441-02	1.4608-02	4.2206-03

ALPHA = 3.00 BETA = 3.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLUAD=0.004
 CENTER DEFLECTION = 0.09960683

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	9.7807-02	9.2487-02	8.3884-02	7.2420-02	5.8722-02	4.3667-02	2.8441-02	1.4608-02	4.2206-03
85 1.0036	9.7794-02	9.2438-02	8.3783-02	7.2262-02	5.8514-02	4.3434-02	2.8220-02	1.4443-02	4.1502-03
80 1.0136	9.7759-02	9.2302-02	8.3503-02	7.1825-02	5.7949-02	4.2809-02	2.7639-02	1.4027-02	3.9839-03
75 1.0287	9.7704-02	9.2094-02	8.3078-02	7.1168-02	5.7108-02	4.1895-02	2.6813-02	1.3459-02	3.7710-03
70 1.0476	9.7634-02	9.1832-02	8.2544-02	7.0353-02	5.6080-02	4.0801-02	2.5851-02	1.2823-02	3.5437-03
65 1.0684	9.7556-02	9.1538-02	8.1952-02	6.9458-02	5.4970-02	3.9644-02	2.4662-02	1.2191-02	3.3291-03
60 1.0889	9.7478-02	9.1246-02	8.1366-02	6.8581-02	5.3898-02	3.8549-02	2.3949-02	1.1626-02	3.1405-03
55 1.1064	9.7410-02	9.0993-02	8.0863-02	6.7836-02	5.2998-02	3.7646-02	2.3212-02	1.1180-02	2.9986-03
50 1.1183	9.7364-02	9.0820-02	8.0520-02	6.7331-02	5.2396-02	3.7049-02	2.2732-02	1.0895-02	2.9067-03
45 1.1225	9.7347-02	9.0759-02	8.0398-02	6.7153-02	5.2184-02	3.6841-02	2.2566-02	1.0796-02	2.8767-03
40 1.1183	9.7364-02	9.0820-02	8.0520-02	6.7331-02	5.2396-02	3.7049-02	2.2732-02	1.0895-02	2.9065-03
35 1.1064	9.7410-02	9.0993-02	8.0863-02	6.7836-02	5.2998-02	3.7646-02	2.3212-02	1.1180-02	2.9988-03
30 1.0889	9.7478-02	9.1246-02	8.1366-02	6.8581-02	5.3898-02	3.8549-02	2.3949-02	1.1626-02	3.1397-03
25 1.0684	9.7556-02	9.1538-02	8.1952-02	6.9458-02	5.4969-02	3.9644-02	2.4661-02	1.2191-02	3.3300-03
20 1.0476	9.7634-02	9.1832-02	8.2544-02	7.0352-02	5.6080-02	4.0801-02	2.5851-02	1.2823-02	3.5432-03
15 1.0287	9.7704-02	9.2094-02	8.3077-02	7.1168-02	5.7107-02	4.1895-02	2.6812-02	1.3459-02	3.7709-03
10 1.0136	9.7759-02	9.2302-02	8.3503-02	7.1825-02	5.7948-02	4.2808-02	2.7638-02	1.4027-02	3.9839-03
5 1.0036	9.7794-02	9.2438-02	8.3783-02	7.2261-02	5.8514-02	4.3434-02	2.8219-02	1.4443-02	4.1492-03
0 1.0000	9.7807-02	9.2486-02	8.3884-02	7.2420-02	5.8721-02	4.3667-02	2.8440-02	1.4607-02	4.2203-03
90 1.0000	6.5963-03	1.2441-02	1.6850-02	1.9275-02	1.9380-02	1.7124-02	1.2860-02	7.4453-03	2.3814-03
85 1.0036	6.5941-03	1.2433-02	1.6830-02	1.9236-02	1.9320-02	1.7046-02	1.2776-02	7.3755-03	2.3484-03
80 1.0136	6.5817-03	1.2399-02	1.6759-02	1.9114-02	1.9142-02	1.6825-02	1.2549-02	7.1976-03	2.2716-03
75 1.0287	6.5492-03	1.2322-02	1.6618-02	1.8896-02	1.8846-02	1.6480-02	1.2212-02	6.9494-03	2.1727-03
70 1.0476	6.4849-03	1.2182-02	1.6388-02	1.8566-02	1.8430-02	1.6024-02	1.1793-02	6.6587-03	2.0640-03
65 1.0684	6.3754-03	1.1957-02	1.6043-02	1.8109-02	1.7893-02	1.5471-02	1.1315-02	6.3458-03	1.9542-03
60 1.0889	6.2060-03	1.1623-02	1.5560-02	1.7508-02	1.7233-02	1.4833-02	1.0796-02	6.0251-03	1.8461-03
55 1.1064	5.9626-03	1.1158-02	1.4915-02	1.6750-02	1.6448-02	1.4121-02	1.0250-02	5.7058-03	1.7450-03
50 1.1183	5.6356-03	1.0545-02	1.4093-02	1.5824-02	1.5536-02	1.3337-02	9.6813-03	5.3903-03	1.6488-03
45 1.1225	5.2230-03	9.7810-03	1.3090-02	1.4727-02	1.4493-02	1.2477-02	9.0852-03	5.0752-03	1.5578-03
40 1.1183	4.7330-03	8.8792-03	1.1919-02	1.3462-02	1.3315-02	1.1528-02	8.4465-03	4.7487-03	1.4664-03
35 1.1064	4.1822-03	7.8659-03	1.0603-02	1.2045-02	1.1998-02	1.0473-02	7.7427-03	4.3940-03	1.3702-03
30 1.0889	3.5917-03	6.7756-03	9.1782-03	1.0498-02	1.0545-02	9.2968-03	6.4502-03	3.9916-03	1.2594-03
25 1.0684	2.9818-03	5.6425-03	7.6826-03	8.8494-03	8.9697-03	7.9932-03	6.0502-03	3.5230-03	1.1288-03
20 1.0476	2.3684-03	4.4948-03	6.1494-03	7.1310-03	7.2405-03	6.5661-03	5.0333-03	2.9745-03	9.6887-04
15 1.0287	1.7614-03	3.3510-03	4.6635-03	5.3694-03	5.5314-03	5.0297-03	3.9015-03	2.3395-03	7.7562-04
10 1.0136	1.1651-03	2.2208-03	3.0605-03	3.5858-03	3.7162-03	3.4053-03	2.6680-03	1.6208-03	5.4693-04
5 1.0036	5.7924-04	1.1054-03	1.5265-03	1.7937-03	1.8663-03	1.7191-03	1.3502-03	8.3187-04	2.8472-04

ALPHA = 3.00 BETA = 3.00 A = 1.00 B = 1.00 CULOAD=0.002 QLLLOAD=0.004

CENTER DEFLECTION = 0.09960683

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	1.0000	1.0440-01	1.0493-01	1.0073-01	9.1695-02	7.8101-02	6.0791-02	4.1301-02	2.2053-02
85	1.0036	1.0439-01	1.0487-01	1.0061-01	9.1498-02	7.7834-02	6.0480-02	4.0996-02	2.1819-02
80	1.0136	1.0434-01	1.0470-01	1.0026-01	9.0939-02	7.7090-02	5.9634-02	4.0187-02	2.1225-02
75	1.0287	1.0425-01	1.0442-01	9.9696-02	9.0063-02	7.5953-02	5.8375-02	3.9025-02	2.0409-02
70	1.0476	1.0412-01	1.0401-01	9.8932-02	8.8919-02	7.4510-02	5.6825-02	3.7644-02	1.9482-02
65	1.0684	1.0393-01	1.0350-01	9.7995-02	8.7567-02	7.2863-02	5.5115-02	3.6176-02	1.8537-02
60	1.0889	1.0368-01	1.0287-01	9.6926-02	8.6090-02	7.1131-02	5.3383-02	3.4745-02	1.7651-02
55	1.1064	1.0337-01	1.0215-01	9.5777-02	8.4586-02	6.9446-02	5.1767-02	3.3462-02	1.6886-02
50	1.1183	1.0300-01	1.0136-01	9.4612-02	8.3156-02	6.7932-02	5.0386-02	3.2414-02	1.6285-02
45	1.1225	1.0257-01	1.0054-01	9.3488-02	8.1880-02	6.6677-02	4.9317-02	3.1651-02	1.5871-02
40	1.1183	1.0210-01	9.9699-02	9.2438-02	8.0794-02	6.5711-02	4.8577-02	3.1179-02	1.5643-02
35	1.1064	1.0159-01	9.8859-02	9.1465-02	7.9880-02	6.4996-02	4.8119-02	3.0955-02	1.5574-02
30	1.0889	1.0107-01	9.8022-02	9.0544-02	7.9079-02	6.4443-02	4.7846-02	3.0899-02	1.5617-02
25	1.0684	1.0054-01	9.7181-02	8.9635-02	7.8307-02	6.3939-02	4.7637-02	3.0912-02	1.5714-02
20	1.0476	1.0000-01	9.6326-02	8.8693-02	7.7483-02	6.3370-02	4.7367-02	3.0884-02	1.5797-02
15	1.0287	9.9465-02	9.5445-02	8.7681-02	7.6537-02	6.2639-02	4.6924-02	3.0714-02	1.5798-02
10	1.0136	9.8924-02	9.4522-02	8.6564-02	7.5411-02	6.1664-02	4.6213-02	3.0306-02	1.5647-02
5	1.0036	9.8374-02	9.3543-02	8.5310-02	7.4055-02	6.0380-02	4.5153-02	2.9575-02	1.5275-02
0	1.0000	9.7807-02	9.2486-02	8.3884-02	7.2420-02	5.8721-02	4.3667-02	2.8440-02	1.4607-02
-5	1.0036	9.7215-02	9.1332-02	8.2257-02	7.0968-02	5.6648-02	4.1715-02	2.6863-02	1.3611-02
-10	1.0136	9.6594-02	9.0081-02	8.0443-02	6.8239-02	5.4232-02	3.9403-02	2.4970-02	1.2406-02
-15	1.0287	9.5942-02	8.8743-02	7.8474-02	6.5798-02	5.1576-02	3.6865-02	2.2911-02	1.1119-02
-20	1.0476	9.5266-02	8.7337-02	7.6395-02	6.3221-02	4.8789-02	3.4235-02	2.0817-02	9.8484-03
-25	1.0684	9.4575-02	8.5896-02	7.4270-02	6.0608-02	4.6000-02	3.1651-02	1.8811-02	8.6683-03
-30	1.0889	9.3887-02	8.4471-02	7.2188-02	5.8084-02	4.3352-02	2.9252-02	1.6999-02	7.6343-03
-35	1.1064	9.3228-02	8.3127-02	7.0260-02	5.5790-02	4.1000-02	2.7173-02	1.5469-02	6.7859-03
-40	1.1183	9.2631-02	8.1941-02	6.8601-02	5.3869-02	3.9081-02	2.5522-02	1.4286-02	6.1458-03
-45	1.1225	9.2124-02	8.0978-02	6.7307-02	5.2426-02	3.7690-02	2.4364-02	1.3481-02	5.7211-03
-50	1.1183	9.1728-02	8.0276-02	6.6427-02	5.1507-02	3.6860-02	2.3713-02	1.3051-02	5.5041-03
-55	1.1064	9.1448-02	7.9836-02	6.5948-02	5.1085-02	3.6550-02	2.3526-02	1.2962-02	5.4742-03
-60	1.0889	9.1272-02	7.9623-02	6.5807-02	5.1073-02	3.6665-02	2.3716-02	1.3153-02	5.6009-03
-65	1.0684	9.1181-02	7.9581-02	6.5909-02	5.1349-02	3.7076-02	2.4173-02	1.3547-02	5.8456-03
-70	1.0476	9.1149-02	7.9650-02	6.6156-02	5.1787-02	3.7650-02	2.4778-02	1.4058-02	6.1645-03
-75	1.0287	9.1155-02	7.9772-02	6.6459-02	5.2272-02	3.8262-02	2.5415-02	1.4601-02	6.5098-03
-80	1.0136	9.1177-02	7.9903-02	6.6745-02	5.2711-02	3.8807-02	2.5983-02	1.5090-02	6.8296-03
-85	1.0036	9.1200-02	8.0005-02	6.6954-02	5.3025-02	3.9195-02	2.6389-02	1.5444-02	7.0679-03
-90	1.0000	9.1211-02	8.0045-02	6.7034-02	5.3145-02	3.9342-02	2.6544-02	1.5581-02	7.1624-03

ALPHA = 3.00 BETA = 3.00 A = 1.00 B = 2.00 CULOAD=0.002 QLLLOAD=0.0

CENTER DEFLECTION = 0.20331793

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	2.0000	2.0089-01	1.9350-01	1.8085-01	1.6240-01	1.3866-01	1.0946-01	7.6410-02	4.2541-02
85	2.0041	2.0078-01	1.9307-01	1.7993-01	1.6111-01	1.3662-01	1.0703-01	7.3931-02	4.0511-02
80	2.0020	2.0048-01	1.9193-01	1.7754-01	1.5732-01	1.3156-01	1.0123-01	6.8287-02	3.6235-02
75	1.9741	2.0008-01	1.9040-01	1.7440-01	1.5244-01	1.2529-01	9.4349-02	6.2004-02	3.1884-02
70	1.9091	1.9968-01	1.8888-01	1.7134-01	1.4782-01	1.1953-01	8.8316-02	5.6814-02	2.8557-02
65	1.8104	1.9936-01	1.8771-01	1.6901-01	1.4436-01	1.1533-01	8.4074-02	5.3327-02	2.6442-02
60	1.6927	1.9917-01	1.8700-01	1.6759-01	1.4227-01	1.1285-01	8.1622-02	5.1372-02	2.5299-02
55	1.5720	1.9908-01	1.8666-01	1.6693-01	1.4131-01	1.1171-01	8.0510-02	5.0504-02	2.4806-02
50	1.4593	1.9906-01	1.8658-01	1.6678-01	1.4107-01	1.1143-01	8.0250-02	5.0311-02	2.4708-02
45	1.3598	1.9908-01	1.8665-01	1.6690-01	1.4125-01	1.1165-01	8.0471-02	5.0499-02	2.4831-02
40	1.2748	1.9911-01	1.8678-01	1.6716-01	1.4144-01	1.1211-01	8.0937-02	5.0885-02	2.5071-02
35	1.2038	1.9915-01	1.8693-01	1.6747-01	1.4210-01	1.1267-01	8.1503-02	5.1355-02	2.5367-02
30	1.1456	1.9919-01	1.8709-01	1.6777-01	1.4256-01	1.1324-01	8.2086-02	5.1845-02	2.5671-02
25	1.0988	1.9923-01	1.8723-01	1.6806-01	1.4299-01	1.1377-01	8.2637-02	5.2315-02	2.5970-02
20	1.0620	1.9926-01	1.8735-01	1.6831-01	1.4336-01	1.1423-01	8.3128-02	5.2739-02	2.6245-02
15	1.0344	1.9929-01	1.8745-01	1.6851-01	1.4367-01	1.1462-01	8.3540-02	5.3100-02	2.6483-02
10	1.0152	1.9931-01	1.8752-01	1.6866-01	1.4390-01	1.1492-01	8.3856-02	5.3382-02	2.6674-02
5	1.0038	1.9932-01	1.8757-01	1.6875-01	1.4405-01	1.1510-01	8.4061-02	5.3567-02	2.6802-02
0	1.0000	1.9933-01	1.8758-01	1.6879-01	1.4410-01	1.1517-01	8.4134-02	5.3635-02	2.6851-02
-5	1.0038	1.9932-01	1.8757-01	1.6875-01	1.4405-01	1.1510-01	8.4061-02	5.3567-02	2.6802-02
-10	1.0152	1.9931-01	1.8752-01	1.6866-01	1.4390-01	1.1492-01	8.3856-02	5.3382-02	2.6674-02
-15	1.0344	1.9929-01	1.8745-01	1.6851-01	1.4367-01	1.1462-01	8.3540-02	5.3100-02	2.6483-02
-20	1.0620	1.9926-01	1.8735-01	1.6831-01	1.4336-01	1.1423-01	8.3128-02	5.2739-02	2.6245-02
-25	1.0988	1.9923-01	1.8723-01	1.6806-01	1.4299-01	1.1377-01	8.2637-02	5.2315-02	2.5970-02
-30	1.1456	1.9919-01	1.8709-01	1.6777-01	1.4256-01	1.1324-01	8.2086-02	5.1845-02	2.5671-02
-35	1.2038	1.9915-01	1.8693-01	1.6747-01	1.4210-01	1.1267-01	8.1503-02	5.1355-02	2.5367-02
-40	1.2748	1.9911-01	1.8678-01	1.6716-01	1.4144-01	1.1211-01	8.0937-02	5.0885-02	2.5071-02
-45	1.3598	1.9908-01	1.8665-01	1.6693-01	1.4125-01	1.1165-01	8.0471-02	5.0499-02	2.4831-02
-50	1.4593	1.9906-01	1.8658-01	1.6678-01	1.4107-01	1.1143-01	8.0250-02	5.0311-02	2.4708-02
-55	1.5720	1.9908-01	1.8666-01	1.6690-01	1.4131-01	1.1171-01	8.0510-02	5.0504-02	2.4806-02
-60	1.6927	1.9917-01	1.8700-01	1.6759-01	1.4227-01	1.1285-01	8.1622-02	5.1372-02	2.5299-02
-65	1.8104	1.9936-01	1.8771-01	1.6901-01	1.4436-01	1.1533-01	8.4074-02	5.3327-02	2.6442-02
-70	1.9091	1.9968-01	1.8888-01	1.7134-01	1.4782-01	1.1953-01	8.8316-02	5.6814-02	2.8557-02
-75	1.9741	2.0008-01	1.9040-01	1.7440-01	1.5244-01	1.2529-01	9.4349-02	6.2004-02	3.1884-02
-80	2.0020	2.0048-01	1.9193-01	1.7754-01	1.5732-01	1.3156-01	1.0123-01	6.8287-02	3.6235-02
-85	2.0041	2.0078-01	1.9307-01	1.7993-01	1.6111-01	1.3662-01	1.0703-01	7.3931-02	4.0511-02
-90	2.0000	2.0089-01	1.9350-01	1.8085-01	1.6240-01	1.3866-01	1.0946-01	7.6410-02	4.2541-02

ALPHA = 3.00 BETA = 3.00 A = 1.00 B = 2.00 CULOAD=0.002 QLLCAD=0.004

CENTER DEFLECTION = 0.20331793

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.0089-01	1.9350-01	1.8085-01	1.6260-01	1.3866-01	1.0946-01	7.6410-02	4.2541-02	1.3540-02
85 2.0041	2.0078-01	1.9307-01	1.7993-01	1.6111-01	1.3662-01	1.0703-01	7.3431-02	4.0511-02	1.2543-02
80 2.0020	2.0048-01	1.9193-01	1.7754-01	1.5732-01	1.3156-01	1.0123-01	6.8287-02	3.6235-02	1.0719-02
75 1.9741	2.0008-01	1.9040-01	1.7440-01	1.5244-01	1.2529-01	9.4349-02	6.2004-02	3.1884-02	9.0924-03
70 1.9091	1.9968-01	1.8888-01	1.7134-01	1.4782-01	1.1953-01	8.8316-02	5.6814-02	2.8557-02	7.9634-03
65 1.8104	1.9936-01	1.8771-01	1.6901-01	1.4436-01	1.1533-01	8.4074-02	5.3327-02	2.6442-02	7.2896-03
60 1.6927	1.9917-01	1.8700-01	1.6759-01	1.4227-01	1.1285-01	8.1622-02	5.1372-02	2.5299-02	6.9405-03
55 1.5720	1.9908-01	1.8666-01	1.6693-01	1.4131-01	1.1171-01	8.0510-02	5.0504-02	2.4806-02	6.7955-03
50 1.4593	1.9906-01	1.8658-01	1.6678-01	1.4107-01	1.1143-01	8.0250-02	5.0311-02	2.4708-02	6.7727-03
45 1.3598	1.9908-01	1.8665-01	1.6690-01	1.4125-01	1.1165-01	8.0471-02	5.0499-02	2.4831-02	6.8168-03
40 1.2748	1.9911-01	1.8678-01	1.6716-01	1.4164-01	1.1211-01	8.0937-02	5.0885-02	2.5071-02	6.8980-03
35 1.2038	1.9915-01	1.8693-01	1.6747-01	1.4210-01	1.1267-01	8.1503-02	5.1355-02	2.5364-02	6.9963-03
30 1.1456	1.9919-01	1.8709-01	1.6777-01	1.4256-01	1.1324-01	8.2086-02	5.1843-02	2.5671-02	7.0997-03
25 1.0988	1.9923-01	1.8723-01	1.6806-01	1.4299-01	1.1377-01	8.2637-02	5.2315-02	2.5970-02	7.2021-03
20 1.0620	1.9926-01	1.8735-01	1.6831-01	1.4336-01	1.1423-01	8.3128-02	5.2739-02	2.6245-02	7.2981-03
15 1.0344	1.9929-01	1.8745-01	1.6851-01	1.4367-01	1.1462-01	8.3540-02	5.3100-02	2.6483-02	7.3830-03
10 1.0152	1.9931-01	1.8752-01	1.6866-01	1.4390-01	1.1492-01	8.3856-02	5.3382-02	2.6674-02	7.4529-03
5 1.0038	1.9932-01	1.8757-01	1.6875-01	1.4405-01	1.1510-01	8.4061-02	5.3567-02	2.6802-02	7.5024-03
0 1.0000	1.9933-01	1.8758-01	1.6879-01	1.4410-01	1.1517-01	8.4134-02	5.3635-02	2.6851-02	7.5222-03

90 2.0000	6.2109-02	1.1866-01	1.6415-01	1.9331-01	2.0164-01	1.8628-01	1.4750-01	9.0964-02	3.1453-02
85 2.0041	6.1966-02	1.1820-01	1.6307-01	1.9129-01	1.9847-01	1.8203-01	1.4268-01	8.6671-02	2.9201-02
80 2.0020	6.1111-02	1.1610-01	1.5908-01	1.8482-01	1.8930-01	1.7073-01	1.3092-01	7.7206-02	2.4956-02
75 1.9741	5.9001-02	1.1151-01	1.5149-01	1.7390-01	1.7390-01	1.5520-01	1.1628-01	6.6709-02	2.0892-02
70 1.9091	5.5419-02	1.0424-01	1.4051-01	1.5959-01	1.5884-01	1.3837-01	1.0188-01	5.7373-02	1.7654-02
65 1.8104	5.0633-02	9.4932-02	1.2730-01	1.4357-01	1.4167-01	1.2224-01	8.9118-02	4.9727-02	1.5190-02
60 1.6927	4.5215-02	8.4652-02	1.1325-01	1.2732-01	1.2519-01	1.0760-01	7.8165-02	4.3499-02	1.3275-02
55 1.5720	3.9718-02	7.4352-02	9.9453-02	1.1180-01	1.0991-01	9.4486-02	6.8677-02	3.8268-02	1.1705-02
50 1.4593	3.4688-02	6.4606-02	8.6515-02	9.7405-02	9.5952-02	8.2686-02	6.0274-02	3.3701-02	1.0351-02
45 1.3598	2.9673-02	5.5644-02	7.6462-02	8.4236-02	8.3225-02	7.1970-02	5.2673-02	2.9582-02	9.1288-03
40 1.2748	2.5297-02	4.7492-02	6.3825-02	7.2214-02	7.1579-02	6.2138-02	4.5677-02	2.5778-02	7.9963-03
35 1.2038	2.1324-02	4.0077-02	5.3955-02	6.1199-02	6.0853-02	5.3027-02	3.9150-02	2.2201-02	6.9231-03
30 1.1456	1.7696-02	3.3289-02	4.4889-02	5.1030-02	5.0888-02	4.4499-02	3.2989-02	1.8795-02	5.8905-03
25 1.0988	1.4350-02	2.7016-02	3.6481-02	4.1553-02	4.1541-02	3.6440-02	2.7115-02	1.5514-02	4.8861-03
20 1.0620	1.1227-02	2.1153-02	2.8596-02	3.2624-02	3.2684-02	2.8747-02	2.1460-02	1.2326-02	3.8999-03
15 1.0344	8.2769-03	1.5602-02	2.1111-02	2.4116-02	2.4202-02	2.1332-02	1.5968-02	9.2024-03	2.9234-03
10 1.0152	5.4505-03	1.0278-02	1.3917-02	1.5912-02	1.5989-02	1.4116-02	1.0588-02	6.1186-03	1.9504-03
5 1.0038	2.7051-03	5.1025-03	6.9114-03	7.9072-03	7.9516-03	7.0275-03	5.2785-03	3.0557-03	9.7659-04

ALPHA = 3.00 BETA = 3.00 A = 1.00 B = 2.00 CULOAD=0.002 QLLCAD=0.004

CENTER DEFLECTION = 0.20331793

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.6300-01	3.1216-01	3.4499-01	3.5591-01	3.4030-01	2.9574-01	2.2391-01	1.3350-01	4.4993-02
85 2.0041	2.6275-01	3.1127-01	3.4300-01	3.5240-01	3.3509-01	2.8900-01	2.1661-01	1.2718-01	4.1744-02
80 2.0020	2.6159-01	3.0802-01	3.3662-01	3.4213-01	3.2086-01	2.7196-01	1.9921-01	1.1344-01	3.5675-02
75 1.9741	2.5908-01	3.0190-01	3.2588-01	3.2634-01	3.0068-01	2.4955-01	1.7829-01	9.8593-02	2.9985-02
70 1.9091	2.5510-01	2.9312-01	3.1186-01	3.0741-01	2.7837-01	2.2669-01	1.5869-01	8.5970-02	2.5618-02
65 1.8104	2.5000-01	2.8265-01	2.9631-01	2.8792-01	2.5700-01	2.0632-01	1.4244-01	7.6169-02	2.2480-02
60 1.6927	2.4439-01	2.7165-01	2.8084-01	2.6960-01	2.3803-01	1.8922-01	1.2494-01	6.8798-02	2.0215-02
55 1.5720	2.3880-01	2.6102-01	2.6639-01	2.5310-01	2.2162-01	1.7500-01	1.1918-01	6.3075-02	1.8500-02
50 1.4593	2.3355-01	2.5119-01	2.5329-01	2.3888-01	2.0738-01	1.6294-01	1.1058-01	5.8409-02	1.7123-02
45 1.3598	2.2875-01	2.4229-01	2.4154-01	2.2549-01	1.9487-01	1.5244-01	1.0317-01	5.4414-02	1.5946-02
40 1.2748	2.2441-01	2.3427-01	2.3098-01	2.1385-01	1.8369-01	1.4307-01	9.6562-02	5.0849-02	1.4894-02
35 1.2038	2.2048-01	2.2701-01	2.2142-01	2.0329-01	1.7352-01	1.3453-01	9.0505-02	4.7565-02	1.3919-02
30 1.1456	2.1689-01	2.2037-01	2.1266-01	1.9359-01	1.6412-01	1.2659-01	8.4834-02	4.4466-02	1.2990-02
25 1.0988	2.1358-01	2.1424-01	2.0454-01	1.8454-01	1.5531-01	1.1908-01	7.9429-02	4.1485-02	1.2088-02
20 1.0620	2.1049-01	2.0850-01	1.9690-01	1.7599-01	1.4692-01	1.1187-01	7.4199-02	3.8571-02	1.1198-02
15 1.0344	2.0757-01	2.0305-01	1.8962-01	1.6779-01	1.3882-01	1.0487-01	6.9067-02	3.5686-02	1.0306-02
10 1.0152	2.0476-01	1.9780-01	1.8257-01	1.5981-01	1.3090-01	9.7972-02	6.3470-02	3.2792-02	9.4033-03
5 1.0038	2.0203-01	1.9267-01	1.7566-01	1.5196-01	1.2306-01	9.1088-02	5.8846-02	2.9858-02	8.4790-03
0 1.0000	1.9933-01	1.8758-01	1.6879-01	1.4410-01	1.1517-01	8.4134-02	5.3635-02	2.6851-02	7.5222-03
-5 1.0038	1.9662-01	1.8247-01	1.6184-01	1.3614-01	1.0715-01	7.7033-02	4.8289-02	2.3747-02	6.5258-03
-10 1.0152	1.9386-01	1.7724-01	1.5474-01	1.2799-01	9.8427-02	6.9740-02	4.2793-02	2.0555-02	5.5024-03
-15 1.0344	1.9101-01	1.7185-01	1.4740-01	1.1955-01	9.0420-02	6.2208-02	3.7132-02	1.7281-02	4.4597-03
-20 1.0620	1.8804-01	1.6620-01	1.3971-01	1.1074-01	8.1550-02	5.4382-02	3.1279-02	1.3919-02	3.3983-03
-25 1.0988	1.8488-01	1.6021-01	1.3158-01	1.0143-01	7.2225-02	4.6197-02	2.5200-02	1.0456-02	2.3160-03
-30 1.1456	1.8150-01	1.5380-01	1.2289-01	9.1528-02	6.2347-02	3.7586-02	1.8856-02	6.8767-03	1.2093-03
-35 1.2038	1.7783-01	1.4686-01	1.1351-01	8.0896-02	5.1815-02	2.8476-02	1.2206-02	3.1625-03	7.3119-03
-40 1.2748	1.7381-01	1.3929-01	1.0333-01	6.9423-02	4.0531-02	1.8799-02	5.2078-03	7.0659-04	1.0983-03
-45 1.3598	1.6940-01	1.3100-01	9.2257-02	5.7619-02	2.8425-02	8.5018-03	2.1733-03	4.7512-03	2.3120-03
-50 1.4593	1.6457-01	1.2198-01	8.0260-02	4.3668-02	1.5479-02	2.4361-03	9.4634-03	8.9937-03	3.5779-03
-55 1.5720	1.5936-01	1.1231-01	6.7480-02	2.9508-02	1.7937-03	1.3976-02	1.8173-02	1.3462-02	4.9090-03
-60 1.6927	1.5396-01	1.0235-01	5.4346-02	1.4947-02	1.2340-02	2.5981-02	2.6793-02	1.8200-02	6.3344-03
-65 1.8104	1.4873-01	9.2782-02	4.1714-02	7.8759-02	2.2344-02	3.8170-02	3.5741-02	2.3284-02	7.9006-03
-70 1.9091	1.4426-01	8.4642-02	3.0830-02	1.1776-02	3.9310-02	3.0053-02	4.7063-02	2.8817-02	9.6909-03
-75 1.9741	1.4108-01	7.8888-02	2.2913-02	2.1457-02	5.0106-02	6.0849-02	5.4280-02	3.4824-02	1.1800-02
-80 2.0020	1.3937-01	7.5829-02	1.8460-02	2.7499-02	5.7734-02	6.9501-02	6.2633-02	4.0971-02	1.4237-02
-85 2.0041	1.3882-01	7.4471-02	1.6861-02	3.0177-02	6.1846-02	7.4993-02	6.8752-02	4.6161-02	1.6658-02
-90 2.0000	1.3879-01	7.4843-02	1.6700-02	3.0710-02	6.2983-02	7.6827-02	7.1092-02	4.8423-02	1.7913-02

ALPHA = 5.00 BETA = 5.00 A = 1.00 B = 1.00 CULOAD=0.002 QLLLOAD=0.0

CENTER DEFLECTION = 0.10570850

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	1.0000	1.0386-01	9.8389-02	8.9500-02	7.7573-02	6.3200-02	4.7246-02	3.0937-02	1.5964-02	4.6242-03
85	1.0038	1.0385-01	9.8336-02	8.9392-02	7.7407-02	6.2989-02	4.7019-02	3.0735-02	1.5827-02	4.5743-03
80	1.0154	1.0381-01	9.8176-02	8.9064-02	7.6902-02	6.2347-02	4.6330-02	3.0120-02	1.5413-02	4.4223-03
75	1.0350	1.0373-01	9.7899-02	8.8500-02	7.6038-02	6.1252-02	4.5156-02	2.9078-02	1.4712-02	4.1652-03
70	1.0628	1.0363-01	9.7499-02	8.7685-02	7.4792-02	5.9682-02	4.3483-02	2.7603-02	1.3728-02	3.8076-03
65	1.0986	1.0349-01	9.6970-02	8.6614-02	7.3165-02	5.7645-02	4.1336-02	2.5734-02	1.2501-02	3.3703-03
60	1.1404	1.0332-01	9.6332-02	8.5328-02	7.1226-02	5.5246-02	3.8842-02	2.3604-02	1.1136-02	2.8992-03
55	1.1834	1.0314-01	9.5656-02	8.3974-02	6.9204-02	5.2778-02	3.6323-02	2.1502-02	9.8308-03	2.4664-03
50	1.2177	1.0299-01	9.5100-02	8.2869-02	6.7571-02	5.0810-02	3.4350-02	1.9896-02	8.8634-03	2.1581-03
45	1.2311	1.0293-01	9.4879-02	8.2431-02	6.6926-02	5.0040-02	3.3588-02	1.9284-02	8.5027-03	2.0461-03
40	1.2177	1.0299-01	9.5100-02	8.2869-02	6.7571-02	5.0810-02	3.4350-02	1.9896-02	8.8634-03	2.1581-03
35	1.1834	1.0314-01	9.5656-02	8.3974-02	6.9204-02	5.2778-02	3.6323-02	2.1502-02	9.8308-03	2.4664-03
30	1.1404	1.0332-01	9.6332-02	8.5328-02	7.1226-02	5.5246-02	3.8842-02	2.3604-02	1.1136-02	2.8992-03
25	1.0986	1.0349-01	9.6970-02	8.6614-02	7.3165-02	5.7645-02	4.1336-02	2.5734-02	1.2501-02	3.3703-03
20	1.0628	1.0363-01	9.7499-02	8.7685-02	7.4792-02	5.9682-02	4.3483-02	2.7603-02	1.3728-02	3.8076-03
15	1.0350	1.0373-01	9.7899-02	8.8500-02	7.6038-02	6.1252-02	4.5156-02	2.9078-02	1.4712-02	4.1652-03
10	1.0154	1.0381-01	9.8176-02	8.9064-02	7.6902-02	6.2347-02	4.6329-02	3.0120-02	1.5413-02	4.4223-03
5	1.0038	1.0385-01	9.8336-02	8.9392-02	7.7407-02	6.2989-02	4.7019-02	3.0735-02	1.5827-02	4.5743-03
0	1.0000	1.0386-01	9.8389-02	8.9500-02	7.7573-02	6.3200-02	4.7246-02	3.0937-02	1.5964-02	4.6242-03
-5	1.0038	1.0385-01	9.8336-02	8.9392-02	7.7407-02	6.2989-02	4.7019-02	3.0735-02	1.5827-02	4.5743-03
-10	1.0154	1.0381-01	9.8176-02	8.9064-02	7.6902-02	6.2347-02	4.6329-02	3.0120-02	1.5413-02	4.4223-03
-15	1.0350	1.0373-01	9.7899-02	8.8500-02	7.6038-02	6.1252-02	4.5156-02	2.9078-02	1.4712-02	4.1652-03
-20	1.0628	1.0363-01	9.7499-02	8.7685-02	7.4792-02	5.9682-02	4.3483-02	2.7603-02	1.3728-02	3.8076-03
-25	1.0986	1.0349-01	9.6970-02	8.6614-02	7.3165-02	5.7645-02	4.1336-02	2.5734-02	1.2501-02	3.3703-03
-30	1.1404	1.0332-01	9.6332-02	8.5328-02	7.1226-02	5.5246-02	3.8842-02	2.3604-02	1.1136-02	2.8992-03
-35	1.1834	1.0314-01	9.5656-02	8.3974-02	6.9204-02	5.2778-02	3.6323-02	2.1502-02	9.8308-03	2.4664-03
-40	1.2177	1.0299-01	9.5100-02	8.2869-02	6.7571-02	5.0810-02	3.4350-02	1.9896-02	8.8634-03	2.1581-03
-45	1.2311	1.0293-01	9.4879-02	8.2431-02	6.6926-02	5.0040-02	3.3588-02	1.9284-02	8.5027-03	2.0461-03
-50	1.2177	1.0299-01	9.5100-02	8.2869-02	6.7571-02	5.0810-02	3.4350-02	1.9896-02	8.8634-03	2.1581-03
-55	1.1834	1.0314-01	9.5656-02	8.3974-02	6.9204-02	5.2778-02	3.6323-02	2.1502-02	9.8308-03	2.4664-03
-60	1.1404	1.0332-01	9.6332-02	8.5328-02	7.1226-02	5.5246-02	3.8842-02	2.3604-02	1.1136-02	2.8992-03
-65	1.0986	1.0349-01	9.6970-02	8.6614-02	7.3165-02	5.7645-02	4.1336-02	2.5734-02	1.2501-02	3.3703-03
-70	1.0628	1.0363-01	9.7499-02	8.7685-02	7.4792-02	5.9682-02	4.3483-02	2.7603-02	1.3728-02	3.8076-03
-75	1.0350	1.0373-01	9.7899-02	8.8500-02	7.6038-02	6.1252-02	4.5156-02	2.9078-02	1.4712-02	4.1652-03
-80	1.0154	1.0381-01	9.8176-02	8.9064-02	7.6902-02	6.2347-02	4.6329-02	3.0120-02	1.5413-02	4.4223-03
-85	1.0038	1.0385-01	9.8336-02	8.9392-02	7.7407-02	6.2989-02	4.7019-02	3.0735-02	1.5827-02	4.5743-03
-90	1.0000	1.0386-01	9.8389-02	8.9500-02	7.7573-02	6.3200-02	4.7246-02	3.0937-02	1.5964-02	4.6242-03

ALPHA = 5.00 BETA = 5.00 A = 1.00 B = 1.00 CULOAD=0.002 QLLLOAD=0.004

CENTER DEFLECTION = 0.10570850

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	1.0000	1.0386-01	9.8389-02	8.9500-02	7.7573-02	6.3200-02	4.7246-02	3.0937-02	1.5964-02	4.6242-03
85	1.0038	1.0385-01	9.8336-02	8.9392-02	7.7407-02	6.2989-02	4.7019-02	3.0735-02	1.5827-02	4.5743-03
80	1.0154	1.0381-01	9.8176-02	8.9064-02	7.6902-02	6.2347-02	4.6330-02	3.0120-02	1.5413-02	4.4223-03
75	1.0350	1.0373-01	9.7899-02	8.8500-02	7.6038-02	6.1252-02	4.5156-02	2.9078-02	1.4712-02	4.1652-03
70	1.0628	1.0363-01	9.7499-02	8.7685-02	7.4792-02	5.9682-02	4.3483-02	2.7603-02	1.3728-02	3.8076-03
65	1.0986	1.0349-01	9.6970-02	8.6614-02	7.3165-02	5.7645-02	4.1336-02	2.5734-02	1.2501-02	3.3703-03
60	1.1404	1.0332-01	9.6332-02	8.5328-02	7.1226-02	5.5246-02	3.8842-02	2.3604-02	1.1136-02	2.8992-03
55	1.1834	1.0314-01	9.5656-02	8.3974-02	6.9204-02	5.2778-02	3.6323-02	2.1502-02	9.8308-03	2.4664-03
50	1.2177	1.0299-01	9.5100-02	8.2869-02	6.7571-02	5.0810-02	3.4350-02	1.9896-02	8.8634-03	2.1581-03
45	1.2311	1.0293-01	9.4879-02	8.2431-02	6.6926-02	5.0040-02	3.3588-02	1.9284-02	8.5027-03	2.0461-03
40	1.2177	1.0299-01	9.5100-02	8.2869-02	6.7571-02	5.0810-02	3.4350-02	1.9896-02	8.8634-03	2.1581-03
35	1.1834	1.0314-01	9.5656-02	8.3974-02	6.9204-02	5.2778-02	3.6323-02	2.1502-02	9.8308-03	2.4664-03
30	1.1404	1.0332-01	9.6332-02	8.5328-02	7.1226-02	5.5246-02	3.8842-02	2.3604-02	1.1136-02	2.8992-03
25	1.0986	1.0349-01	9.6970-02	8.6614-02	7.3165-02	5.7645-02	4.1336-02	2.5734-02	1.2501-02	3.3703-03
20	1.0628	1.0363-01	9.7499-02	8.7685-02	7.4792-02	5.9682-02	4.3483-02	2.7603-02	1.3728-02	3.8076-03
15	1.0350	1.0373-01	9.7899-02	8.8500-02	7.6038-02	6.1252-02	4.5156-02	2.9078-02	1.4712-02	4.1652-03
10	1.0154	1.0381-01	9.8176-02	8.9064-02	7.6902-02	6.2347-02	4.6329-02	3.0120-02	1.5413-02	4.4223-03
5	1.0038	1.0385-01	9.8336-02	8.9392-02	7.7407-02	6.2989-02	4.7019-02	3.0735-02	1.5827-02	4.5743-03
0	1.0000	1.0386-01	9.8389-02	8.9500-02	7.7573-02	6.3200-02	4.7246-02	3.0937-02	1.5964-02	4.6242-03
90	1.0000	7.1323-03	1.3462-02	1.8254-02	2.0911-02	2.1057-02	1.9632-02	1.4003-02	8.1035-03	2.5841-03
85	1.0038	7.1316-03	1.3457-02	1.8238-02	2.0880-02	2.1009-02	1.9572-02	1.3944-02	8.0601-03	2.5676-03
80	1.0154	7.1292-03	1.3441-02	1.8190-02	2.0784-02	2.0861-02	1.9387-02	1.3760-02	7.9259-03	2.5157-03
75	1.0350	7.1239-03	1.3411-02	1.8104-02	2.0615-02	2.0603-02	1.9067-02	1.3441-02	7.6918-03	2.4241-03
70	1.0628	7.1117-03	1.3359-02	1.7970-02	2.0360-02	2.0220-02	1.7596-02	1.2475-02	7.3492-03	2.2494-03
65	1.0986	7.0831-03	1.3268-02	1.7764-02	1.9946-02	1.9692-02	1.6961-02	1.2354-02	6.8984-03	2.1137-03
60	1.1404	7.0186-03	1.3104-02	1.7449-02	1.9490-02	1.9001-02	1.6164-02	1.1598-02	6.3619-03	1.9093-03
55	1.1834	6.8815-03	1.2808-02	1.6964-02	1.8805-02	1.8150-02	1.5245-02	1.0770-02	5.7999-03	1.7037-03
50	1.2177	6.6179-03	1.2294-02	1.6231-02	1.7407-02	1.7171-02	1.4300-02	9.9948-03	5.3121-03	1.5363-03
45	1.2311	6.1780-03	1.1486-02	1.5183-02	1.6775-02	1.6110-02	1.3434-02	9.3956-03	4.9929-03	1.4422-03
40	1.2177	5.5619-03	1.0381-02	1.3812-02	1.5397-02	1.4954-02	1.2638-02	8.9739-03	4.8478-03	1.4244-03
35	1.1834	4.8327-03	0.9737-02	1.2192-02	1.3781-02	1.3624-02	1.1764-02	8.5670-03	4.7622-03	1.4437-03
30	1.1404	4.0684-03	7.6869-03	1.0438-02	1.1472-02	1.2063-02	1.0662-02	7.9624-03	4.5821-03	1.4407-03
25	1.0986	3.3187-03	6.3353-03	8.6417-03	1.0042-02	1.0290-02	9.2846-03	7.1255-03	4.2109-03	1.3697-03
20	1.0628	2.6023-03	4.9663-03	6.8571-03	8.0517-03	8.3608-03	7.6690-03	6.0023-03	3.6304-03	1.2135-03
15	1.0350	1.9198-03	3.6760-03	5.1036-03	6.0388-03	6.3326-03	5.8789-03	4.6677-03	2.8711-03	9.7879-04
10	1.0154	1.2646-03	2.4270-03	3.3821-03	4.0227-03	4.2466-03	3.9743-03	3.1658-03	1.9814-03	6.8411-04
5	1.0038	6.2776-04	1.2063-03	1.6847-03	2.0099-03	2.1296-03	2.0027-03	1.6159-03	1.0100-03	3.5112-04

ALPHA = 5.00 BETA = 5.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLCAL=0.004

CENTER DEFLECTION = 0.1070850

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	1.1099-01	1.1185-01	1.0775-01	9.8484-02	8.4257-02	6.5878-02	4.4440-02	2.4067-02	7.2083-03
85 1.0038	1.1098-01	1.1179-01	1.0763-01	9.8287-02	8.3998-02	6.5591-02	4.4678-02	2.3887-02	7.1419-03
80 1.0154	1.1093-01	1.1162-01	1.0725-01	9.7686-02	8.3208-02	6.4717-02	4.3880-02	2.3339-02	6.9380-03
75 1.0350	1.1086-01	1.1131-01	1.0660-01	9.6653-02	8.1855-02	6.3223-02	4.2519-02	2.2404-02	6.5893-03
70 1.0628	1.1074-01	1.1086-01	1.0566-01	9.5152-02	7.9901-02	6.1079-02	4.0578-02	2.1077-02	6.0970-03
65 1.0986	1.1057-01	1.1024-01	1.0438-01	9.3161-02	7.7337-02	5.8297-02	3.8088-02	1.9400-02	5.4840-03
60 1.1404	1.1033-01	1.0944-01	1.0278-01	9.0716-02	7.4247-02	5.5005-02	3.5201-02	1.7498-02	4.8085-03
55 1.1834	1.1002-01	1.0846-01	1.0094-01	8.8009-02	7.0928-02	5.1568-02	3.2273-02	1.5631-02	4.1700-03
50 1.2177	1.0960-01	1.0739-01	9.9101-02	8.5478-02	6.7982-02	4.8651-02	2.9890-02	1.4175-02	3.6445-03
45 1.2311	1.0910-01	1.0636-01	9.7613-02	8.3701-02	6.5150-02	4.7021-02	2.8680-02	1.3496-02	3.4883-03
40 1.2177	1.0855-01	1.0548-01	9.6681-02	8.2968-02	6.3764-02	4.6988-02	2.8870-02	1.3711-02	3.5826-03
35 1.1834	1.0797-01	1.0473-01	9.6166-02	8.2985-02	6.2402-02	4.6087-02	2.8069-02	1.4593-02	3.9100-03
30 1.1404	1.0738-01	1.0402-01	9.5766-02	8.3198-02	6.1099-02	4.5054-02	2.7186-02	1.5718-02	4.3399-03
25 1.0986	1.0680-01	1.0328-01	9.5250-02	8.3207-02	6.0255-02	4.4020-02	2.6259-02	1.6712-02	4.7400-03
20 1.0628	1.0623-01	1.0247-01	9.4542-02	8.2844-02	5.9042-02	4.3152-02	2.5305-02	1.7359-02	5.0211-03
15 1.0350	1.0565-01	1.0158-01	9.3604-02	8.2077-02	5.7845-02	4.1035-02	2.3745-02	1.7583-02	5.1440-03
10 1.0154	1.0507-01	1.0060-01	9.2446-02	8.0925-02	5.6554-02	4.0304-02	2.3306-02	1.7394-02	5.1063-03
5 1.0038	1.0448-01	9.9543-02	9.1077-02	7.9417-02	5.5117-02	4.0022-02	2.2348-02	1.6837-02	4.9253-03
0 1.0000	1.0386-01	9.8389-02	8.9500-02	7.7573-02	5.3200-02	4.0246-02	2.0937-02	1.5963-02	4.6241-03
-5 1.0038	1.0322-01	9.7130-02	8.7708-02	7.5398-02	5.0855-02	4.5017-02	2.9121-02	1.4817-02	4.2231-03
-10 1.0154	1.0254-01	9.5749-02	8.5682-02	7.2880-02	5.8101-02	4.2355-02	2.6934-02	1.3432-02	3.7381-03
-15 1.0350	1.0181-01	9.4223-02	8.3397-02	6.9999-02	5.4919-02	3.9277-02	2.4410-02	1.1841-02	3.1864-03
-20 1.0628	1.0102-01	9.2532-02	8.0828-02	6.6740-02	5.1321-02	3.5814-02	2.1601-02	1.0098-02	2.5941-03
-25 1.0986	1.0017-01	9.0665-02	7.7973-02	6.3122-02	4.7356-02	3.2051-02	1.8609-02	8.2903-03	2.0007-03
-30 1.1404	9.9248-02	8.8645-02	7.4891-02	5.9253-02	4.3183-02	2.8180-02	1.5621-02	6.5541-03	1.4585-03
-35 1.1834	9.8302-02	8.6582-02	7.1782-02	5.5424-02	3.9155-02	2.4559-02	1.2935-02	5.0686-03	1.0227-03
-40 1.2177	9.7424-02	8.4719-02	6.9058-02	5.2174-02	3.5856-02	2.1713-02	1.0922-02	4.0155-03	7.3372-04
-45 1.2311	9.6748-02	8.3393-02	6.7248-02	5.0151-02	3.3930-02	2.0154-02	9.8886-03	3.5099-03	6.0389-04
-50 1.2177	9.6368-02	8.2806-02	6.6638-02	4.9663-02	3.3639-02	2.0050-02	9.9008-03	3.5513-03	6.2176-04
-55 1.1834	9.6254-02	8.2848-02	6.7010-02	5.0399-02	3.4628-02	2.1078-02	1.0732-02	4.0308-03	7.6271-04
-60 1.1404	9.6297-02	8.3228-02	6.7879-02	5.1735-02	3.6245-02	2.2678-02	1.2006-02	4.7744-03	9.8990-04
-65 1.0986	9.6403-02	8.3703-02	6.8850-02	5.3169-02	3.7954-02	2.4375-02	1.3380-02	5.6029-03	1.2567-03
-70 1.0628	9.6515-02	8.4140-02	6.9716-02	5.4432-02	3.9462-02	2.5887-02	1.4628-02	6.3790-03	1.5182-03
-75 1.0350	9.6608-02	8.4489-02	7.0396-02	5.5423-02	4.0649-02	2.7089-02	1.5636-02	7.0202-03	1.7412-03
-80 1.0154	9.6676-02	8.4735-02	7.0874-02	5.6119-02	4.1487-02	2.7942-02	1.6360-02	7.4872-03	1.9067-03
-85 1.0038	9.6716-02	8.4880-02	7.1154-02	5.6528-02	4.1980-02	2.8448-02	1.6791-02	7.7673-03	2.0068-03
-90 1.0000	9.6730-02	8.4927-02	7.1246-02	5.6662-02	4.2143-02	2.8614-02	1.6933-02	7.8602-03	2.0400-03

ALPHA = 5.00 BETA = 5.00 A = 1.00 B = 2.00 CULOAD=0.002 CLLCAL=0.0

CENTER DEFLECTION = 0.21212059

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.1033-01	2.0473-01	1.9466-01	1.7914-01	1.5716-01	1.2809-01	9.2476-02	5.3166-02	1.7344-02
85 2.0076	2.1021-01	2.0424-01	1.9361-01	1.7743-01	1.5481-01	1.2533-01	8.9719-02	5.1037-02	1.6427-02
80 2.0286	2.0982-01	2.0276-01	1.9046-01	1.7232-01	1.4787-01	1.1722-01	8.1739-02	4.4969-02	1.3849-02
75 2.0527	2.0919-01	2.0034-01	1.8538-01	1.6421-01	1.3707-01	1.0494-01	7.0058-02	3.6476-02	1.0451-02
70 2.0506	2.0843-01	1.9741-01	1.7934-01	1.5480-01	1.2495-01	9.1746-02	5.8212-02	2.8501-02	7.5824-03
65 1.9833	2.0777-01	1.9495-01	1.7437-01	1.4732-01	1.1573-01	8.2281-02	5.0324-02	2.3682-02	6.0572-03
60 1.8474	2.0745-01	1.9375-01	1.7203-01	1.4394-01	1.1181-01	7.8560-02	4.7539-02	2.2216-02	5.6866-03
55 1.6851	2.0740-01	1.9359-01	1.7177-01	1.4368-01	1.1169-01	7.8689-02	4.7902-02	2.2632-02	5.9004-03
50 1.5333	2.0747-01	1.9389-01	1.7240-01	1.4470-01	1.1306-01	8.0247-02	4.9365-02	2.3662-02	6.2905-03
45 1.4055	2.0758-01	1.9428-01	1.7321-01	1.4595-01	1.1467-01	8.1992-02	5.0926-02	2.4714-02	6.6736-03
40 1.3020	2.0767-01	1.9464-01	1.7394-01	1.4708-01	1.1609-01	8.3511-02	5.2263-02	2.5601-02	6.9926-03
35 1.2195	2.0775-01	1.9494-01	1.7455-01	1.4800-01	1.1725-01	8.4727-02	5.3323-02	2.6298-02	7.2409-03
30 1.1542	2.0781-01	1.9517-01	1.7502-01	1.4872-01	1.1814-01	8.5665-02	5.4134-02	2.6827-02	7.4282-03
25 1.1032	2.0786-01	1.9535-01	1.7538-01	1.4926-01	1.1882-01	8.6373-02	5.4743-02	2.7221-02	7.5664-03
20 1.0641	2.0790-01	1.9549-01	1.7565-01	1.4967-01	1.1932-01	8.6897-02	5.5191-02	2.7508-02	7.6662-03
15 1.0353	2.0792-01	1.9559-01	1.7585-01	1.4997-01	1.1968-01	8.7271-02	5.5508-02	2.7711-02	7.7359-03
10 1.0154	2.0794-01	1.9565-01	1.7598-01	1.5016-01	1.1993-01	8.7521-02	5.5720-02	2.7845-02	7.8116-03
5 1.0038	2.0795-01	1.9569-01	1.7606-01	1.5028-01	1.2007-01	8.7665-02	5.5841-02	2.7921-02	7.8073-03
0 1.0000	2.0796-01	1.9570-01	1.7608-01	1.5031-01	1.2011-01	8.7711-02	5.5880-02	2.7946-02	7.8156-03
-5 1.0038	2.0795-01	1.9569-01	1.7606-01	1.5028-01	1.2007-01	8.7665-02	5.5841-02	2.7921-02	7.8073-03
-10 1.0154	2.0794-01	1.9565-01	1.7598-01	1.5016-01	1.1993-01	8.7521-02	5.5720-02	2.7845-02	7.8116-03
-15 1.0353	2.0792-01	1.9555-01	1.7585-01	1.4997-01	1.1968-01	8.7271-02	5.5508-02	2.7711-02	7.7359-03
-20 1.0641	2.0790-01	1.9549-01	1.7565-01	1.4967-01	1.1932-01	8.6897-02	5.5191-02	2.7508-02	7.6662-03
-25 1.1032	2.0786-01	1.9535-01	1.7538-01	1.4926-01	1.1882-01	8.6373-02	5.4743-02	2.7221-02	7.5664-03
-30 1.1542	2.0781-01	1.9517-01	1.7502-01	1.4872-01	1.1814-01	8.5665-02	5.4134-02	2.6827-02	7.4282-03
-35 1.2195	2.0775-01	1.9494-01	1.7455-01	1.4800-01	1.1725-01	8.4727-02	5.3323-02	2.6298-02	7.2409-03
-40 1.3020	2.0767-01	1.9464-01	1.7394-01	1.4708-01	1.1609-01	8.3511-02	5.2263-02	2.5601-02	6.9926-03
-45 1.4055	2.0758-01	1.9428-01	1.7321-01	1.4595-01	1.1467-01	8.1992-02	5.0926-02	2.4714-02	6.6736-03
-50 1.5333	2.0747-01	1.9389-01	1.7240-01	1.4470-01	1.1306-01	8.0247-02	4.9365-02	2.3662-02	6.2905-03
-55 1.6851	2.0740-01	1.9359-01	1.7177-01	1.4368-01	1.1169-01	7.8689-02	4.7902-02	2.2632-02	5.9004-03
-60 1.8474	2.0745-01	1.9375-01	1.7203-01	1.4394-01	1.1181-01	7.8560-02	4.7539-02	2.2216-02	5.6866-03
-65 1.9833	2.0777-01	1.9495-01	1.7437-01	1.4732-01	1.1573-01	8.2281-02	5.0324-02	2.3682-02	6.0572-03
-70 2.0506	2.0843-01	1.9741-01	1.7934-01	1.5480-01	1.2495-01	9.1746-02	5.8212-02	2.8501-02	7.5824-03
-75 2.0527	2.0919-01	2.0034-01	1.8538-01	1.6421-01	1.3707-01	1.0494-01	7.0058-02	3.6476-02	1.0451-02
-80 2.0286	2.0982-01	2.0276-01	1.9046-01	1.7232-01	1.4787-01	1.1722-01	8.1739-02	4.4969-02	1.3849-02
-85 2.0076	2.1021-01	2.0424-01	1.9361-01	1.7743-01	1.5481-01	1.2533-01	8.9719-02	5.1037-02	1.6427-02
-90 2.0000	2.1033-01	2.0473-01	1.9466-01	1.7914-01	1.5716-01	1.2809-01	9.2476-02	5.3166-02	1.7344-02

ALPHA = 5.00 BETA = 5.00 A = 1.00 B = 2.00 CULOAD=0.002 QLLLOAD=0.004

CENTER DEFLECTION = 0.2121069

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.1033-01	2.0473-01	1.9466-01	1.7914-01	1.5716-01	1.2809-01	9.2476-02	5.3166-02	1.7344-02
85 2.0076	2.1021-01	2.0424-01	1.9361-01	1.7743-01	1.5481-01	1.2533-01	8.9719-02	5.1037-02	1.6427-02
80 2.0286	2.0982-01	2.0276-01	1.9046-01	1.7232-01	1.4787-01	1.1722-01	8.1739-02	4.4969-02	1.3849-02
75 2.0527	2.0919-01	2.0034-01	1.8538-01	1.6421-01	1.3707-01	1.0494-01	7.0058-02	3.6476-02	1.0451-02
70 2.0506	2.0843-01	1.9741-01	1.7934-01	1.5480-01	1.2495-01	9.1746-02	5.8212-02	2.8501-02	7.5824-03
65 1.9833	2.0777-01	1.9495-01	1.7437-01	1.4732-01	1.1573-01	8.2281-02	5.0324-02	2.3682-02	6.0572-03
60 1.8474	2.0745-01	1.9375-01	1.7203-01	1.4344-01	1.1181-01	7.8560-02	4.7534-02	2.2216-02	5.6866-03
55 1.6851	2.0740-01	1.9359-01	1.7177-01	1.4368-01	1.1169-01	7.8689-02	4.7402-02	2.2632-02	5.9004-03
50 1.5333	2.0747-01	1.9389-01	1.7240-01	1.4470-01	1.1306-01	8.0247-02	4.9365-02	2.3662-02	6.2903-03
45 1.4055	2.0758-01	1.9426-01	1.7321-01	1.4595-01	1.1467-01	8.1992-02	5.0926-02	2.4714-02	6.6736-03
40 1.3020	2.0767-01	1.9464-01	1.7394-01	1.4708-01	1.1609-01	8.3511-02	5.2263-02	2.5601-02	6.9926-03
35 1.2195	2.0775-01	1.9494-01	1.7455-01	1.4800-01	1.1725-01	8.4727-02	5.3323-02	2.6298-02	7.2409-03
30 1.1542	2.0781-01	1.9517-01	1.7502-01	1.4872-01	1.1814-01	8.5665-02	5.4134-02	2.6827-02	7.4282-03
25 1.1032	2.0786-01	1.9535-01	1.7538-01	1.4926-01	1.1882-01	8.6373-02	5.4743-02	2.7221-02	7.5664-03
20 1.0641	2.0790-01	1.9549-01	1.7565-01	1.4967-01	1.1932-01	8.6897-02	5.5191-02	2.7508-02	7.6662-03
15 1.0353	2.0792-01	1.9554-01	1.7585-01	1.4997-01	1.1968-01	8.7271-02	5.5508-02	2.7711-02	7.7359-03
10 1.0154	2.0794-01	1.9565-01	1.7598-01	1.5016-01	1.1993-01	8.7521-02	5.5720-02	2.7845-02	7.7816-03
5 1.0038	2.0795-01	1.9569-01	1.7606-01	1.5028-01	1.2007-01	8.7665-02	5.5841-02	2.7921-02	7.8073-03
0 1.0000	2.0796-01	1.9570-01	1.7608-01	1.5031-01	1.2011-01	8.7711-02	5.5880-02	2.7946-02	7.8156-03
90 2.0000	6.9336-02	1.3345-01	1.8683-01	2.2359-01	2.3780-01	2.2449-01	1.8174-01	1.1435-01	4.0034-02
85 2.0076	6.9294-02	1.3314-01	1.8586-01	2.2155-01	2.3443-01	2.1992-01	1.7667-01	1.1011-01	3.8113-02
80 2.0286	6.9101-02	1.3208-01	1.8280-01	2.1529-01	2.2427-01	2.0632-01	1.6180-01	9.7875-02	3.2608-02
75 2.0527	6.8389-02	1.2963-01	1.7692-01	2.0431-01	2.0745-01	1.8481-01	1.3930-01	8.0201-02	2.5088-02
70 2.0506	6.6247-02	1.2434-01	1.6694-01	1.8836-01	1.8560-01	1.5928-01	1.1474-01	6.2572-02	1.8351-02
65 1.9833	6.1641-02	1.1484-01	1.5228-01	1.6890-01	1.6281-01	1.3610-01	9.5126-02	5.0207-02	1.4250-02
60 1.8474	5.4823-02	1.0190-01	1.3464-01	1.4862-01	1.4250-01	1.1849-01	8.2484-02	4.3488-02	1.2401-02
55 1.6851	4.7322-02	8.8091-02	1.1670-01	1.2936-01	1.2478-01	1.0466-01	7.3723-02	3.9509-02	1.1519-02
50 1.5333	4.0306-02	7.5238-02	1.0015-01	1.1178-01	1.0883-01	9.2389-02	6.6092-02	3.6105-02	1.0777-02
45 1.4055	3.4134-02	6.3889-02	8.5428-02	9.5973-02	9.4256-02	8.0897-02	5.8657-02	3.2570-02	9.9126-03
40 1.3020	2.8766-02	5.3962-02	7.2427-02	8.1802-02	8.0901-02	7.0040-02	5.1322-02	2.8855-02	8.9111-03
35 1.2195	2.4055-02	4.5205-02	6.0853-02	6.9015-02	6.8621-02	5.9802-02	4.4167-02	2.5062-02	7.8222-03
30 1.1542	1.9857-02	3.7365-02	5.0413-02	5.7355-02	5.7259-02	5.0146-02	3.7251-02	2.1279-02	6.6924-03
25 1.1032	1.6047-02	3.0228-02	4.0853-02	4.6588-02	4.6651-02	4.1005-02	3.0590-02	1.7558-02	5.5519-03
20 1.0641	1.2530-02	2.3620-02	3.1463-02	3.6514-02	3.6644-02	3.2295-02	2.4165-02	1.3919-02	4.4175-03
15 1.0353	9.2263-03	1.7402-02	2.3570-02	2.6960-02	2.7098-02	2.3927-02	1.7942-02	1.0359-02	3.2960-03
10 1.0154	6.0723-03	1.1458-02	1.5528-02	1.7776-02	1.7886-02	1.5812-02	1.1874-02	6.8657-03	2.1881-03
5 1.0038	3.0131-03	5.6865-03	7.7093-03	8.8247-03	8.8897-03	7.8646-03	5.9105-03	3.4205-03	1.0911-03

ALPHA = 5.00 BETA = 5.00 A = 1.00 B = 2.00 CULOAD=0.002 QLLLOAD=0.004

CENTER DEFLECTION = 0.2121069

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.7967-01	3.3818-01	3.8148-01	4.0272-01	3.9495-01	3.5258-01	2.7421-01	1.6751-01	5.7378-02
85 2.0076	2.7950-01	3.3738-01	3.7947-01	3.9898-01	3.8924-01	3.4524-01	2.6639-01	1.6115-01	5.4539-02
80 2.0286	2.7892-01	3.3484-01	3.7326-01	3.8761-01	3.7214-01	3.2354-01	2.4354-01	1.4284-01	4.6457-02
75 2.0527	2.7758-01	3.2997-01	3.6230-01	3.6852-01	3.4452-01	2.8976-01	2.0936-01	1.1668-01	3.5539-02
70 2.0506	2.7467-01	3.2175-01	3.4627-01	3.4316-01	3.1054-01	2.5103-01	1.7295-01	9.1073-02	2.5934-02
65 1.9833	2.6941-01	3.0979-01	3.2666-01	3.1622-01	2.7854-01	2.1838-01	1.4545-01	7.3889-02	2.0307-02
60 1.8474	2.6227-01	2.9565-01	3.0666-01	2.9256-01	2.5431-01	1.9705-01	1.3002-01	6.5704-02	1.8088-02
55 1.6851	2.5472-01	2.8168-01	2.8847-01	2.7304-01	2.3647-01	1.8334-01	1.2163-01	6.2141-02	1.7419-02
50 1.5333	2.4778-01	2.6513-01	2.7254-01	2.5647-01	2.2189-01	1.7264-01	1.1546-01	5.9767-02	1.7068-02
45 1.4055	2.4171-01	2.5817-01	2.5863-01	2.4192-01	2.0893-01	1.6289-01	1.0958-01	5.7284-02	1.6586-02
40 1.3020	2.3644-01	2.4860-01	2.4637-01	2.2888-01	1.9699-01	1.5355-01	1.0359-01	5.4456-02	1.5904-02
35 1.2195	2.3181-01	2.4014-01	2.3540-01	2.1701-01	1.8587-01	1.4453-01	9.7490-02	5.1359-02	1.5063-02
30 1.1542	2.2767-01	2.3254-01	2.2543-01	2.0607-01	1.7540-01	1.3581-01	9.1385-02	4.8106-02	1.4121-02
25 1.1032	2.2391-01	2.2558-01	2.1624-01	1.9585-01	1.6547-01	1.2738-01	8.5333-02	4.4780-02	1.3118-02
20 1.0641	2.2043-01	2.1911-01	2.0762-01	1.8619-01	1.5597-01	1.1919-01	7.9354-02	4.1427-02	1.2084-02
15 1.0353	2.1715-01	2.1249-01	1.9942-01	1.7693-01	1.4678-01	1.1120-01	7.3451-02	3.8070-02	1.1032-02
10 1.0154	2.1401-01	2.0711-01	1.9151-01	1.6794-01	1.3781-01	1.0333-01	6.7594-02	3.4711-02	9.9697-03
5 1.0038	2.1097-01	2.0138-01	1.8377-01	1.5911-01	1.2896-01	9.5529-02	6.1751-02	3.1342-02	8.8984-03
0 1.0000	2.0796-01	1.9570-01	1.7608-01	1.5031-01	1.2011-01	8.7711-02	5.5880-02	2.7946-02	7.8156-03
-5 1.0038	2.0494-01	1.9000-01	1.6835-01	1.4145-01	1.1118-01	7.9800-02	4.9930-02	2.4500-02	6.7162-03
-10 1.0154	2.0187-01	1.8419-01	1.6045-01	1.3239-01	1.0204-01	7.1709-02	4.3846-02	2.0979-02	5.5934-03
-15 1.0353	1.9870-01	1.7818-01	1.5228-01	1.2301-01	9.2587-02	6.3345-02	3.7566-02	1.7352-02	4.4399-03
-20 1.0641	1.9537-01	1.7187-01	1.4369-01	1.1316-01	8.2679-02	5.4602-02	3.1025-02	1.3590-02	3.2487-03
-25 1.1032	1.9182-01	1.6513-01	1.3453-01	1.0268-01	7.2168-02	4.5368-02	2.4154-02	9.6627-03	2.0144-03
-30 1.1542	1.8796-01	1.5781-01	1.2461-01	9.1361-02	6.0881-02	3.5518-02	1.6884-02	5.5478-03	7.3583-04
-35 1.2195	1.8370-01	1.4973-01	1.1369-01	7.8983-02	4.8624-02	2.4924-02	9.1563-03	1.2363-03	-5.8129-04
-40 1.3020	1.7891-01	1.4068-01	1.0152-01	6.5278-02	3.5193-02	1.3471-02	9.4142-04	-3.2535-03	-1.4185-03
-45 1.4055	1.7344-01	1.3039-01	8.7778-02	4.9978-02	2.0412-02	1.0951-03	-7.7307-03	-7.8555-03	-3.2390-03
-50 1.5333	1.6717-01	1.1865-01	7.2251-02	3.2920-02	4.2265-03	-1.2142-02	-1.6727-02	-1.2443-02	-4.4870-03
-55 1.6851	1.6008-01	1.0550-01	5.5068-02	1.4318-02	-1.3095-02	-2.5966-02	-2.9821-02	-1.6876-02	-5.6183-03
-60 1.8474	1.5262-01	9.1848-02	3.7389-02	-4.6847-03	-3.0690-02	-3.9932-02	-3.4944-02	-2.1272-02	-6.7144-03
-65 1.9833	1.4613-01	8.0112-02	2.2691-02	-2.1577-02	-4.7077-02	-5.3818-02	-4.4801-02	-2.6525-02	-8.1925-03
-70 2.0506	1.4218-01	7.3070-02	1.2400-02	-3.3565-02	-6.0650-02	-6.7539-02	-5.6526-02	-3.4071-02	-1.0769-02
-75 2.0527	1.4081-01	7.0709-02	8.4589-03	-4.0094-02	-7.0376-02	-7.9872-02	-6.9239-02	-4.3726-02	-1.4637-02
-80 2.0286	1.4072-01	7.0674-02	7.6514-03	-4.2976-02	-7.6408-02	-8.9102-02	-8.0065-02	-5.2906-02	-1.8759-02
-85 2.0076	1.4091-01	7.1103-02	7.7458-03	-4.4127-02	-7.9623-02	-9.4589-02	-8.6949-02	-5.9076-02	-2.1686-02
-90 2.0000	1.4100-01	7.1266-02	7.8318-03	-4.4450-02	-8.0642-02	-9.6395-02	-8.9262-02	-6.1180-02	-2.2640-02

ALPHA =10.00 BETA =10.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLCAD=0.0

CENTER DEFLECTION = 0.10669158

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	1.0484-01	9.9347-02	9.0417-02	7.8419-02	6.3935-02	4.7829-02	3.1335-02	1.6172-02	4.6825-03
85 1.0038	1.0483-01	9.9294-02	9.0309-02	7.8254-02	6.3728-02	4.7608-02	3.1141-02	1.6044-02	4.6369-03
80 1.0154	1.0478-01	9.9132-02	8.9981-02	7.7752-02	6.3095-02	4.6936-02	3.0552-02	1.5654-02	4.4975-03
75 1.0353	1.0471-01	9.8852-02	8.9411-02	7.6882-02	6.2000-02	4.5774-02	2.9534-02	1.4982-02	4.2569-03
70 1.0642	1.0460-01	9.8435-02	8.8564-02	7.5591-02	6.0379-02	4.4057-02	2.8032-02	1.3991-02	3.9021-03
65 1.1033	1.0444-01	9.7853-02	8.7384-02	7.3797-02	5.8133-02	4.1687-02	2.5966-02	1.2632-02	3.4158-03
60 1.1542	1.0423-01	9.7067-02	8.5795-02	7.1390-02	5.5137-02	3.8545-02	2.3248-02	1.0857-02	2.7857-03
55 1.2174	1.0396-01	9.6045-02	8.3740-02	6.8301-02	5.1324-02	3.4594-02	1.9882-02	8.7038-03	2.0420-03
50 1.2847	1.0366-01	9.4901-02	8.1455-02	6.4898-02	4.7184-02	3.0388-02	1.6398-02	6.5675-03	1.3516-03
45 1.3195	1.0349-01	9.4290-02	8.0241-02	6.3107-02	4.5037-02	2.8251-02	1.4683-02	5.5662-03	1.0538-03
40 1.2847	1.0366-01	9.4901-02	8.1455-02	6.4898-02	4.7184-02	3.0388-02	1.6398-02	6.5675-03	1.3516-03
35 1.2174	1.0396-01	9.6045-02	8.3740-02	6.8301-02	5.1324-02	3.4594-02	1.9882-02	8.7038-03	2.0420-03
30 1.1542	1.0423-01	9.7067-02	8.5795-02	7.1390-02	5.5137-02	3.8545-02	2.3248-02	1.0857-02	2.7857-03
25 1.1033	1.0444-01	9.7853-02	8.7384-02	7.3797-02	5.8133-02	4.1687-02	2.5966-02	1.2632-02	3.4158-03
20 1.0642	1.0460-01	9.8435-02	8.8564-02	7.5591-02	6.0379-02	4.4057-02	2.8032-02	1.3991-02	3.9021-03
15 1.0353	1.0471-01	9.8852-02	8.9411-02	7.6882-02	6.2000-02	4.5774-02	2.9534-02	1.4982-02	4.2568-03
10 1.0154	1.0478-01	9.9132-02	8.9981-02	7.7752-02	6.3095-02	4.6936-02	3.0552-02	1.5654-02	4.4974-03
5 1.0038	1.0483-01	9.9294-02	9.0309-02	7.8254-02	6.3727-02	4.7608-02	3.1141-02	1.6044-02	4.6368-03
0 1.0000	1.0484-01	9.9347-02	9.0417-02	7.8418-02	6.3935-02	4.7828-02	3.1334-02	1.6172-02	4.6824-03
-5 1.0038	1.0483-01	9.9294-02	9.0309-02	7.8254-02	6.3727-02	4.7608-02	3.1141-02	1.6044-02	4.6368-03
-10 1.0154	1.0478-01	9.9132-02	8.9981-02	7.7752-02	6.3095-02	4.6936-02	3.0552-02	1.5654-02	4.4974-03
-15 1.0353	1.0471-01	9.8852-02	8.9411-02	7.6882-02	6.2000-02	4.5774-02	2.9534-02	1.4982-02	4.2568-03
-20 1.0642	1.0460-01	9.8435-02	8.8564-02	7.5591-02	6.0379-02	4.4057-02	2.8032-02	1.3991-02	3.9021-03
-25 1.1033	1.0444-01	9.7853-02	8.7384-02	7.3797-02	5.8133-02	4.1687-02	2.5966-02	1.2632-02	3.4158-03
-30 1.1542	1.0423-01	9.7067-02	8.5795-02	7.1390-02	5.5137-02	3.8545-02	2.3248-02	1.0857-02	2.7857-03
-35 1.2174	1.0396-01	9.6045-02	8.3740-02	6.8301-02	5.1324-02	3.4594-02	1.9882-02	8.7038-03	2.0420-03
-40 1.2847	1.0366-01	9.4901-02	8.1455-02	6.4898-02	4.7184-02	3.0388-02	1.6398-02	6.5675-03	1.3516-03
-45 1.3195	1.0349-01	9.4290-02	8.0241-02	6.3107-02	4.5037-02	2.8251-02	1.4683-02	5.5662-03	1.0538-03
-50 1.2847	1.0366-01	9.4901-02	8.1455-02	6.4898-02	4.7184-02	3.0388-02	1.6398-02	6.5675-03	1.3516-03
-55 1.2174	1.0396-01	9.6045-02	8.3740-02	6.8301-02	5.1324-02	3.4594-02	1.9882-02	8.7038-03	2.0420-03
-60 1.1542	1.0423-01	9.7067-02	8.5795-02	7.1390-02	5.5137-02	3.8545-02	2.3248-02	1.0857-02	2.7857-03
-65 1.1033	1.0444-01	9.7853-02	8.7384-02	7.3797-02	5.8133-02	4.1687-02	2.5966-02	1.2632-02	3.4158-03
-70 1.0642	1.0460-01	9.8435-02	8.8564-02	7.5591-02	6.0379-02	4.4057-02	2.8032-02	1.3991-02	3.9021-03
-75 1.0353	1.0471-01	9.8852-02	8.9411-02	7.6882-02	6.2000-02	4.5774-02	2.9534-02	1.4982-02	4.2568-03
-80 1.0154	1.0478-01	9.9132-02	8.9981-02	7.7752-02	6.3095-02	4.6936-02	3.0552-02	1.5654-02	4.4975-03
-85 1.0038	1.0483-01	9.9294-02	9.0309-02	7.8254-02	6.3728-02	4.7608-02	3.1141-02	1.6044-02	4.6369-03
-90 1.0000	1.0484-01	9.9347-02	9.0417-02	7.8419-02	6.3935-02	4.7829-02	3.1335-02	1.6172-02	4.6825-03

ALPHA =10.00 BETA =10.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLCAD=0.004

CENTER DEFLECTION = 0.10669158

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 1.0000	1.0484-01	9.9347-02	9.0417-02	7.8419-02	6.3935-02	4.7829-02	3.1335-02	1.6172-02	4.6825-03
85 1.0038	1.0483-01	9.9294-02	9.0309-02	7.8254-02	6.3728-02	4.7608-02	3.1141-02	1.6044-02	4.6369-03
80 1.0154	1.0478-01	9.9132-02	8.9981-02	7.7752-02	6.3095-02	4.6936-02	3.0552-02	1.5654-02	4.4975-03
75 1.0353	1.0471-01	9.8852-02	8.9411-02	7.6882-02	6.2000-02	4.5774-02	2.9534-02	1.4982-02	4.2569-03
70 1.0642	1.0460-01	9.8435-02	8.8564-02	7.5591-02	6.0379-02	4.4057-02	2.8032-02	1.3991-02	3.9021-03
65 1.1033	1.0444-01	9.7853-02	8.7384-02	7.3797-02	5.8133-02	4.1687-02	2.5966-02	1.2632-02	3.4158-03
60 1.1542	1.0423-01	9.7067-02	8.5795-02	7.1390-02	5.5137-02	3.8545-02	2.3248-02	1.0857-02	2.7857-03
55 1.2174	1.0396-01	9.6045-02	8.3740-02	6.8301-02	5.1324-02	3.4594-02	1.9882-02	8.7038-03	2.0420-03
50 1.2847	1.0366-01	9.4901-02	8.1455-02	6.4898-02	4.7184-02	3.0388-02	1.6398-02	6.5675-03	1.3516-03
45 1.3195	1.0349-01	9.4290-02	8.0241-02	6.3107-02	4.5037-02	2.8251-02	1.4683-02	5.5662-03	1.0538-03
40 1.2847	1.0366-01	9.4901-02	8.1455-02	6.4898-02	4.7184-02	3.0388-02	1.6398-02	6.5675-03	1.3516-03
35 1.2174	1.0396-01	9.6045-02	8.3740-02	6.8301-02	5.1324-02	3.4594-02	1.9882-02	8.7038-03	2.0420-03
30 1.1542	1.0423-01	9.7067-02	8.5795-02	7.1390-02	5.5137-02	3.8545-02	2.3248-02	1.0857-02	2.7857-03
25 1.1033	1.0444-01	9.7853-02	8.7384-02	7.3797-02	5.8133-02	4.1687-02	2.5966-02	1.2632-02	3.4158-03
20 1.0642	1.0460-01	9.8435-02	8.8564-02	7.5591-02	6.0379-02	4.4057-02	2.8032-02	1.3991-02	3.9021-03
15 1.0353	1.0471-01	9.8852-02	8.9411-02	7.6882-02	6.2000-02	4.5774-02	2.9534-02	1.4982-02	4.2568-03
10 1.0154	1.0478-01	9.9132-02	8.9981-02	7.7752-02	6.3095-02	4.6936-02	3.0552-02	1.5654-02	4.4974-03
5 1.0038	1.0483-01	9.9294-02	9.0309-02	7.8254-02	6.3727-02	4.7608-02	3.1141-02	1.6044-02	4.6368-03
0 1.0000	1.0484-01	9.9347-02	9.0417-02	7.8418-02	6.3935-02	4.7828-02	3.1334-02	1.6172-02	4.6824-03
90 1.0000	7.2476-03	1.3681-02	1.8554-02	2.1257-02	2.1406-02	1.8938-02	1.4226-02	8.2243-03	2.6184-03
85 1.0038	7.2470-03	1.3676-02	1.8539-02	2.1228-02	2.1362-02	1.8884-02	1.4175-02	8.1882-03	2.6053-03
80 1.0154	7.2449-03	1.3661-02	1.8493-02	2.1138-02	2.1225-02	1.8718-02	1.4014-02	8.0759-03	2.5640-03
75 1.0353	7.2414-03	1.3635-02	1.8414-02	2.0981-02	2.0986-02	1.8425-02	1.3731-02	7.8749-03	2.4891-03
70 1.0642	7.2361-03	1.3595-02	1.8296-02	2.0745-02	2.0625-02	1.7981-02	1.3295-02	7.5619-03	2.3701-03
65 1.1033	7.2284-03	1.3540-02	1.8129-02	2.0411-02	2.0112-02	1.7344-02	1.2662-02	7.0986-03	2.1895-03
60 1.1542	7.2159-03	1.3460-02	1.7896-02	1.9949-02	1.9400-02	1.6453-02	1.1767-02	6.4319-03	1.9230-03
55 1.2174	7.1859-03	1.3332-02	1.7562-02	1.9312-02	1.8432-02	1.5248-02	1.0552-02	5.5221-03	1.5567-03
50 1.2847	7.0788-03	1.3058-02	1.7028-02	1.8437-02	1.7210-02	1.3798-02	9.1369-03	4.4915-03	1.1566-03
45 1.3195	6.7080-03	1.2356-02	1.6067-02	1.7309-02	1.6022-02	1.2672-02	8.2111-03	3.9002-03	9.5172-04
40 1.2847	5.9512-03	1.1041-02	1.4532-02	1.5933-02	1.5102-02	1.2324-02	8.3201-03	4.1735-03	1.0963-03
35 1.2174	5.0488-03	9.4620-03	1.2671-02	1.4248-02	1.3978-02	1.1938-02	8.5577-03	4.6498-03	1.3621-03
30 1.1542	4.1848-03	7.9103-03	1.0749-02	1.2341-02	1.2447-02	1.1017-02	8.2622-03	4.7538-03	1.4997-03
25 1.1033	3.3884-03	6.4468-03	8.8556-03	1.0324-02	1.0623-02	9.6374-03	7.4448-03	4.4423-03	1.4630-03
20 1.0642	2.6491-03	5.0642-03	7.0117-03	8.2649-03	8.6242-03	7.9578-03	6.2727-03	3.8261-03	1.2920-03
15 1.0353	1.9525-03	3.7451-03	5.2144-03	6.1438-03	6.5258-03	6.0908-03	4.8037-03	3.0091-03	1.0314-03
10 1.0154	1.2858-03	2.4720-03	3.4546-03	4.1244-03	4.3730-03	4.1118-03	3.3104-03	2.0661-03	7.1450-04
5 1.0038	6.3827-04	1.2287-03	1.7207-03	2.0603-03	2.1924-03	2.0699-03	1.6741-03	1.0498-03	3.6479-04

ALPHA =10.00 BETA =10.00 A = 1.00 B = 1.00 CULOAD=0.002 CLLLOAD=0.004

CENTER DEFLECTION = 0.10669158

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	1.0000	1.1209-01	1.1303-01	1.0897-01	9.9676-02	8.5341-02	6.6766-02	4.5561-02	2.4396-02	7.3009-03
85	1.0038	1.1207-01	1.1297-01	1.0885-01	9.9482-02	8.5090-02	6.6492-02	4.5316-02	2.4232-02	7.2421-03
80	1.0154	1.1203-01	1.1279-01	1.0847-01	9.8890-02	8.4320-02	6.5654-02	4.4566-02	2.3730-02	7.0615-03
75	1.0353	1.1195-01	1.1249-01	1.0783-01	9.7863-02	8.2986-02	6.4199-02	4.3264-02	2.2857-02	6.7460-03
70	1.0642	1.1183-01	1.1203-01	1.0686-01	9.6336-02	8.1004-02	6.2038-02	4.1327-02	2.1553-02	6.2722-03
65	1.1033	1.1167-01	1.1139-01	1.0551-01	9.4208-02	7.8245-02	5.9031-02	3.8628-02	1.9730-02	5.6053-03
60	1.1542	1.1145-01	1.1053-01	1.0369-01	9.1340-02	7.4536-02	5.4998-02	3.5014-02	1.7289-02	4.7087-03
55	1.2174	1.1115-01	1.0938-01	1.0130-01	8.7613-02	6.9756-02	4.9842-02	3.0433-02	1.4226-02	3.5987-03
50	1.2847	1.1073-01	1.0796-01	9.8483-02	8.3335-02	6.4394-02	4.4186-02	2.5535-02	1.1059-02	2.5081-03
45	1.3195	1.1020-01	1.0665-01	9.6307-02	8.0416-02	6.1059-02	4.0923-02	2.2894-02	9.4664-03	2.0055-03
40	1.2847	1.0961-01	1.0594-01	9.5986-02	8.0830-02	6.2287-02	4.2712-02	2.4718-02	1.0741-02	2.4478-03
35	1.2174	1.0901-01	1.0551-01	9.6412-02	8.2549-02	6.5302-02	4.6532-02	2.8439-02	1.3354-02	3.4041-03
30	1.1542	1.0842-01	1.0498-01	9.6543-02	8.3731-02	6.7584-02	4.9561-02	3.1510-02	1.5611-02	4.2854-03
25	1.1033	1.0783-01	1.0430-01	9.6240-02	8.4121-02	6.8756-02	5.1325-02	3.3414-02	1.7074-02	4.8788-03
20	1.0642	1.0725-01	1.0350-01	9.5576-02	8.3856-02	6.9003-02	5.2015-02	3.4304-02	1.7817-02	5.1940-03
15	1.0353	1.0666-01	1.0260-01	9.4626-02	8.3076-02	6.8526-02	5.1865-02	3.4397-02	1.7991-02	5.2882-03
10	1.0154	1.0607-01	1.0160-01	9.3435-02	8.1876-02	6.7468-02	5.1048-02	3.3862-02	1.7720-02	5.2119-03
5	1.0038	1.0546-01	1.0052-01	9.2030-02	8.0315-02	6.5920-02	4.9678-02	3.2815-02	1.7094-02	5.0016-03
0	1.0000	1.0484-01	9.9347-02	9.0417-02	7.8418-02	6.3935-02	4.7828-02	3.1334-02	1.6172-02	4.6824-03
-5	1.0038	1.0419-01	9.8065-02	8.8589-02	7.6194-02	6.1535-02	4.5538-02	2.9467-02	1.4994-02	4.2720-03
-10	1.0154	1.0350-01	9.6660-02	8.6526-02	7.3678-02	5.8722-02	4.2824-02	2.7241-02	1.3588-02	3.7829-03
-15	1.0353	1.0276-01	9.5107-02	8.4197-02	7.0688-02	5.5474-02	3.9683-02	2.4670-02	1.1973-02	3.2254-03
-20	1.0642	1.0195-01	9.3371-02	8.1553-02	6.7326-02	5.1754-02	3.6099-02	2.1759-02	1.0165-02	2.6100-03
-25	1.1033	1.0105-01	9.1406-02	7.8528-02	6.3473-02	4.7509-02	3.2049-02	1.8518-02	8.1895-03	1.9528-03
-30	1.1542	1.0005-01	8.9156-02	7.5046-02	5.9050-02	4.2689-02	2.7528-02	1.4986-02	6.1034-03	1.2860-03
-35	1.2174	9.8913-02	8.6583-02	7.1069-02	5.4053-02	3.7346-02	2.2657-02	1.1324-02	4.0540-03	6.7982-04
-40	1.2847	9.7704-02	8.3861-02	6.6923-02	4.8965-02	3.2082-02	1.8064-02	8.0781-03	2.3940-03	2.5532-04
-45	1.3195	9.6783-02	8.1934-02	6.4174-02	4.5798-02	2.9014-02	1.5579-02	6.4717-03	1.6660-03	1.0208-04
-50	1.2847	9.6577-02	8.1844-02	6.4427-02	4.6461-02	2.9974-02	1.6590-02	7.2613-03	2.0760-03	1.9501-04
-55	1.2174	9.6776-02	8.2713-02	6.6178-02	4.8989-02	3.2893-02	1.9347-02	9.3297-03	3.1817-03	4.8526-04
-60	1.1542	9.7018-02	8.3607-02	6.7898-02	5.1441-02	3.5737-02	2.2092-02	1.1481-02	4.4254-03	8.6274-04
-65	1.1033	9.7215-02	8.4314-02	6.9255-02	5.3386-02	3.8021-02	2.4343-02	1.3304-02	5.5332-03	1.2264-03
-70	1.0642	9.7362-02	8.4840-02	7.0268-02	5.4847-02	3.9754-02	2.6075-02	1.4736-02	6.4290-03	1.5319-03
-75	1.0353	9.7467-02	8.5218-02	7.0997-02	5.5902-02	4.1014-02	2.7349-02	1.5803-02	7.1070-03	1.7678-03
-80	1.0154	9.7538-02	8.5471-02	7.1487-02	5.6614-02	4.1869-02	2.8218-02	1.6537-02	7.5785-03	1.9335-03
-85	1.0038	9.7578-02	8.5618-02	7.1770-02	5.7026-02	4.2366-02	2.8724-02	1.6967-02	7.8558-03	2.0316-03
-90	1.0000	9.7592-02	8.5665-02	7.1863-02	5.7161-02	4.2528-02	2.8891-02	1.7108-02	7.9473-03	2.0640-03

ALPHA =10.00 BETA =10.00 A = 1.00 B = 2.00 CULOAD=0.002 CLLLOAD=0.0

CENTER DEFLECTION = 0.21359257

	RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90	2.0000	2.1196-01	2.0681-01	1.9742-01	1.8271-01	1.6143-01	1.3264-01	9.6527-02	5.5849-02	1.8261-02
85	2.0076	2.1183-01	2.0631-01	1.9636-01	1.8098-01	1.5907-01	1.2989-01	9.3852-02	5.3867-02	1.7461-02
80	2.0308	2.1144-01	2.0479-01	1.9313-01	1.7573-01	1.5195-01	1.2164-01	8.5855-02	4.7965-02	1.5080-02
75	2.0701	2.1076-01	2.0217-01	1.8758-01	1.6681-01	1.3997-01	1.0790-01	7.2727-02	3.8393-02	1.1239-02
70	2.1197	2.0978-01	1.9840-01	1.7971-01	1.5433-01	1.2355-01	8.9564-02	5.5732-02	2.6664-02	6.6674-03
65	2.1194	2.0874-01	1.9447-01	1.7167-01	1.4199-01	1.0796-01	7.3058-02	4.1473-02	1.7382-02	3.6670-03
60	1.9579	2.0842-01	1.9332-01	1.6949-01	1.3901-01	1.0477-01	7.0395-02	3.9865-02	1.6861-02	3.6983-03
55	1.7375	2.0862-01	1.9410-01	1.7120-01	1.4189-01	1.0880-01	7.5136-02	4.4432-02	2.0120-02	4.9240-03
50	1.5548	2.0884-01	1.9494-01	1.7298-01	1.4472-01	1.1256-01	7.9357-02	4.8352-02	2.2860-02	5.9567-03
45	1.4141	2.0900-01	1.9556-01	1.7426-01	1.4674-01	1.1516-01	8.2222-02	5.0961-02	2.4657-02	6.6296-03
40	1.3054	2.0912-01	1.9600-01	1.7517-01	1.4813-01	1.1695-01	8.4144-02	5.2676-02	2.5816-02	7.0557-03
35	1.2208	2.0920-01	1.9632-01	1.7582-01	1.4912-01	1.1819-01	8.5465-02	5.3835-02	2.6583-02	7.3319-03
30	1.1547	2.0926-01	1.9655-01	1.7629-01	1.4984-01	1.1908-01	8.6396-02	5.4639-02	2.7106-02	7.5163-03
25	1.1034	2.0931-01	1.9673-01	1.7664-01	1.5036-01	1.1972-01	8.7061-02	5.5207-02	2.7470-02	7.6422-03
20	1.0642	2.0934-01	1.9685-01	1.7689-01	1.5073-01	1.2018-01	8.7536-02	5.5608-02	2.7724-02	7.7289-03
15	1.0353	2.0937-01	1.9694-01	1.7707-01	1.5100-01	1.2051-01	8.7869-02	5.5887-02	2.7899-02	7.7880-03
10	1.0154	2.0938-01	1.9700-01	1.7719-01	1.5118-01	1.2072-01	8.8090-02	5.6071-02	2.8014-02	7.8263-03
5	1.0038	2.0939-01	1.9704-01	1.7726-01	1.5128-01	1.2085-01	8.8216-02	5.6176-02	2.8079-02	7.8479-03
0	1.0000	2.0940-01	1.9705-01	1.7728-01	1.5131-01	1.2089-01	8.8257-02	5.6210-02	2.8100-02	7.8548-03
-5	1.0038	2.0939-01	1.9704-01	1.7726-01	1.5128-01	1.2085-01	8.8216-02	5.6176-02	2.8079-02	7.8479-03
-10	1.0154	2.0938-01	1.9700-01	1.7719-01	1.5118-01	1.2072-01	8.8090-02	5.6071-02	2.8014-02	7.8263-03
-15	1.0353	2.0937-01	1.9694-01	1.7707-01	1.5100-01	1.2051-01	8.7869-02	5.5887-02	2.7899-02	7.7880-03
-20	1.0642	2.0934-01	1.9685-01	1.7689-01	1.5073-01	1.2018-01	8.7536-02	5.5608-02	2.7724-02	7.7289-03
-25	1.1034	2.0931-01	1.9673-01	1.7664-01	1.5036-01	1.1972-01	8.7061-02	5.5207-02	2.7470-02	7.6422-03
-30	1.1547	2.0926-01	1.9655-01	1.7629-01	1.4984-01	1.1908-01	8.6396-02	5.4639-02	2.7106-02	7.5163-03
-35	1.2208	2.0920-01	1.9632-01	1.7582-01	1.4912-01	1.1819-01	8.5465-02	5.3835-02	2.6583-02	7.3319-03
-40	1.3054	2.0912-01	1.9600-01	1.7517-01	1.4813-01	1.1695-01	8.4144-02	5.2676-02	2.5816-02	7.0557-03
-45	1.4141	2.0900-01	1.9556-01	1.7426-01	1.4674-01	1.1516-01	8.2222-02	5.0961-02	2.4657-02	6.6296-03
-50	1.5548	2.0884-01	1.9494-01	1.7298-01	1.4472-01	1.1256-01	7.9357-02	4.8352-02	2.2860-02	5.9567-03
-55	1.7375	2.0862-01	1.9410-01	1.7120-01	1.4189-01	1.0880-01	7.5136-02	4.4432-02	2.0120-02	4.9240-03
-60	1.9579	2.0842-01	1.9332-01	1.6949-01	1.3901-01	1.0477-01	7.0395-02	3.9865-02	1.6861-02	3.6983-03
-65	2.1194	2.0874-01	1.9447-01	1.7167-01	1.4199-01	1.0796-01	7.3058-02	4.1473-02	1.7382-02	3.6670-03
-70	2.1197	2.0978-01	1.9840-01	1.7971-01	1.5433-01	1.2355-01	8.9564-02	5.5732-02	2.6664-02	6.6674-03
-75	2.0701	2.1076-01	2.0217-01	1.8758-01	1.6681-01	1.3997-01	1.0790-01	7.2727-02	3.8393-02	1.1239-02
-80	2.0308	2.1144-01	2.0479-01	1.9313-01	1.7573-01	1.5195-01	1.2164-01	8.5855-02	4.7965-02	1.5080-02
-85	2.0076	2.1183-01	2.0631-01	1.9636-01	1.8098-01	1.5907-01	1.2989-01	9.3852-02	5.3867-02	1.7461-02
-90	2.0000	2.1196-01	2.0681-01	1.9742-01	1.8271-01	1.6143-01	1.3264-01	9.6527-02	5.5849-02	1.8261-02

ALPHA =10.00 BETA =10.00 A = 1.00 B = 2.00 QULLAD=0.002 QLLUAD=0.004

CENTER DEFLECTION = 0.21359257

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.1196-01	2.0681-01	1.9742-01	1.8271-01	1.6143-01	1.3264-01	9.6527-02	5.5849-02	1.8261-02
85 2.0076	2.1183-01	2.0631-01	1.9636-01	1.8098-01	1.5907-01	1.2989-01	9.3852-02	5.3867-02	1.7461-02
80 2.0308	2.1144-01	2.0479-01	1.9313-01	1.7573-01	1.5195-01	1.2164-01	8.5855-02	4.7965-02	1.5080-02
75 2.0701	2.1076-01	2.0217-01	1.8758-01	1.6881-01	1.3997-01	1.0790-01	7.2727-02	3.8393-02	1.1239-02
70 2.1197	2.0978-01	1.9840-01	1.7971-01	1.5433-01	1.2355-01	8.9564-02	5.5732-02	2.6464-02	6.6674-03
65 2.1194	2.0874-01	1.9447-01	1.7167-01	1.4199-01	1.0796-01	7.3058-02	4.1473-02	1.7382-02	3.6670-03
60 1.9579	2.0842-01	1.9332-01	1.6949-01	1.3901-01	1.0477-01	7.0395-02	3.9865-02	1.6861-02	3.6983-03
55 1.7375	2.0862-01	1.9410-01	1.7120-01	1.4189-01	1.0880-01	7.5136-02	4.4432-02	2.0120-02	4.9240-03
50 1.5548	2.0884-01	1.9494-01	1.7298-01	1.4472-01	1.1256-01	7.9357-02	4.8352-02	2.2860-02	5.9567-03
45 1.4141	2.0900-01	1.9556-01	1.7426-01	1.4674-01	1.1516-01	8.2222-02	5.0961-02	2.4657-02	6.6296-03
40 1.3054	2.0912-01	1.9600-01	1.7517-01	1.4813-01	1.1695-01	8.4144-02	5.2676-02	2.5816-02	7.0557-03
35 1.2208	2.0920-01	1.9632-01	1.7582-01	1.4912-01	1.1819-01	8.5465-02	5.3835-02	2.6583-02	7.3319-03
30 1.1547	2.0926-01	1.9655-01	1.7629-01	1.4984-01	1.1908-01	8.6396-02	5.4639-02	2.7106-02	7.5163-03
25 1.1034	2.0931-01	1.9673-01	1.7664-01	1.5036-01	1.1972-01	8.7061-02	5.5207-02	2.7470-02	7.6422-03
20 1.0642	2.0934-01	1.9685-01	1.7689-01	1.5073-01	1.2018-01	8.7536-02	5.5608-02	2.7724-02	7.7289-03
15 1.0353	2.0937-01	1.9694-01	1.7707-01	1.5100-01	1.2051-01	8.7869-02	5.5887-02	2.7899-02	7.7880-03
10 1.0154	2.0938-01	1.9700-01	1.7719-01	1.5118-01	1.2072-01	8.8090-02	5.6071-02	2.8014-02	7.8263-03
5 1.0038	2.0939-01	1.9704-01	1.7726-01	1.5128-01	1.2085-01	8.8216-02	5.6176-02	2.8079-02	7.8479-03
0 1.0000	2.0940-01	1.9705-01	1.7728-01	1.5131-01	1.2089-01	8.8257-02	5.6210-02	2.8100-02	7.8548-03
90 2.0000	7.0971-02	1.3687-01	1.9226-01	2.3116-01	2.4722-01	2.3479-01	1.9112-01	1.2068-01	4.2223-02
85 2.0076	7.0931-02	1.3656-01	1.9129-01	2.2909-01	2.4383-01	2.3027-01	1.8627-01	1.1683-01	4.0611-02
80 2.0308	7.0806-02	1.3560-01	1.8830-01	2.2281-01	2.3357-01	2.1661-01	1.7163-01	1.0522-01	3.5715-02
75 2.0701	7.0576-02	1.3393-01	1.8313-01	2.1206-01	2.1615-01	1.9364-01	1.4718-01	8.5885-02	2.7481-02
70 2.1197	6.9992-02	1.3106-01	1.7519-01	1.9633-01	1.9151-01	1.6206-01	1.1448-01	6.0734-02	1.7048-02
65 2.1194	6.7199-02	1.2415-01	1.6217-01	1.7570-01	1.6360-01	1.3006-01	8.4517-02	4.0021-02	9.5705-03
60 1.9579	5.9284-02	1.0935-01	1.4251-01	1.5401-01	1.4315-01	1.1383-01	7.4301-02	3.5662-02	8.8341-03
55 1.7375	4.9856-02	9.2477-02	1.2174-01	1.3366-01	1.2717-01	1.0460-01	7.1688-02	3.6948-02	1.0177-02
50 1.5548	4.1790-02	7.7911-02	1.0348-01	1.1512-01	1.1158-01	9.4139-02	6.6775-02	3.6054-02	1.0586-02
45 1.4141	3.5124-02	6.5721-02	8.7832-02	9.8601-02	9.6747-02	8.2938-02	6.0051-02	3.3285-02	1.0107-02
40 1.3054	2.9500-02	5.5340-02	7.4279-02	8.3903-02	8.2998-02	7.1886-02	5.2712-02	2.9670-02	9.1785-03
35 1.2208	2.4633-02	4.6295-02	6.2330-02	7.0712-02	7.0341-02	6.1345-02	4.5353-02	2.5773-02	8.0608-03
30 1.1547	2.0320-02	3.8241-02	5.1602-02	5.8724-02	5.8647-02	5.1391-02	3.8204-02	2.1846-02	6.8799-03
25 1.1034	1.6417-02	3.0927-02	4.1802-02	4.7678-02	4.7751-02	4.1983-02	3.1330-02	1.7991-02	5.6914-03
20 1.0642	1.2817-02	2.4163-02	3.2698-02	3.7356-02	3.7489-02	3.3040-02	2.4721-02	1.3737-02	4.5174-03
15 1.0353	9.4376-03	1.7801-02	2.4109-02	2.7575-02	2.7713-02	2.4464-02	1.8339-02	1.0582-02	3.3644-03
10 1.0154	6.2113-03	1.1720-02	1.5882-02	1.8179-02	1.8287-02	1.6161-02	1.2129-02	7.0075-03	2.3308-03
5 1.0038	3.0821-03	5.8165-03	7.8848-03	9.0292-03	9.0879-03	8.0363-03	6.0355-03	3.4895-03	1.1116-03

ALPHA =10.00 BETA =10.00 A = 1.00 B = 2.00 QULLAD=0.002 QLLUAD=0.004

CENTER DEFLECTION = 0.21359257

RADIUS	0.1R	0.2R	0.3R	0.4R	0.5R	0.6R	0.7R	0.8R	0.9R
90 2.0000	2.8293-01	3.4368-01	3.8968-01	4.1386-01	4.0865-01	3.6743-01	2.8765-01	1.7652-01	6.0484-02
85 2.0076	2.8276-01	3.4287-01	3.8764-01	4.1007-01	4.0290-01	3.6016-01	2.8012-01	1.7070-01	5.8073-02
80 2.0308	2.8224-01	3.4039-01	3.8142-01	3.9855-01	3.8552-01	3.3825-01	2.5749-01	1.5319-01	5.0794-02
75 2.0701	2.8134-01	3.3609-01	3.7072-01	3.7887-01	3.5612-01	3.0154-01	2.1991-01	1.2428-01	3.8720-02
70 2.1197	2.7977-01	3.2946-01	3.5490-01	3.5066-01	3.1506-01	2.5162-01	1.7021-01	8.7198-02	2.3715-02
65 2.1194	2.7594-01	3.1862-01	3.3385-01	3.1769-01	2.7155-01	2.0312-01	1.2599-01	5.7403-02	1.3237-02
60 1.9579	2.6771-01	3.0267-01	3.1200-01	2.9302-01	2.4792-01	1.8423-01	1.1417-01	5.2523-02	1.2532-02
55 1.7375	2.5847-01	2.8657-01	2.9295-01	2.7555-01	2.3597-01	1.7973-01	1.1612-01	5.7065-02	1.5101-02
50 1.5548	2.5063-01	2.7285-01	2.7646-01	2.5985-01	2.2414-01	1.7350-01	1.1513-01	5.8913-02	1.6543-02
45 1.4141	2.4412-01	2.6128-01	2.6210-01	2.4534-01	2.1191-01	1.6516-01	1.1101-01	5.7942-02	1.6737-02
40 1.3054	2.3862-01	2.5134-01	2.4945-01	2.3204-01	1.9994-01	1.5603-01	1.0539-01	5.5486-02	1.6234-02
35 1.2208	2.3383-01	2.4262-01	2.3815-01	2.1984-01	1.8853-01	1.4681-01	9.9188-02	5.2356-02	1.5393-02
30 1.1547	2.2958-01	2.3480-01	2.2789-01	2.0856-01	1.7773-01	1.3779-01	9.2843-02	4.8952-02	1.4396-02
25 1.1034	2.2573-01	2.2765-01	2.1844-01	1.9803-01	1.6747-01	1.2904-01	8.6536-02	4.5461-02	1.3334-02
20 1.0642	2.2216-01	2.2101-01	2.0959-01	1.8809-01	1.5767-01	1.2058-01	8.0330-02	4.1961-02	1.2246-02
15 1.0353	2.1880-01	2.1474-01	2.0118-01	1.7858-01	1.4822-01	1.1233-01	7.4226-02	3.8481-02	1.1152-02
10 1.0154	2.1559-01	2.0872-01	1.9307-01	1.6936-01	1.3901-01	1.0425-01	6.8200-02	3.5021-02	1.0057-02
5 1.0038	2.1247-01	2.0285-01	1.8514-01	1.6031-01	1.2994-01	9.6252-02	6.2211-02	3.1568-02	8.9595-03
0 1.0000	2.0940-01	1.9705-01	1.7728-01	1.5131-01	1.2089-01	8.8257-02	5.6210-02	2.8100-02	7.8548-03
-5 1.0038	2.0631-01	1.9122-01	1.6937-01	1.4225-01	1.1176-01	8.0180-02	5.0140-02	2.4589-02	6.7362-03
-10 1.0154	2.0317-01	1.8528-01	1.6130-01	1.3300-01	1.0244-01	7.1929-02	4.3942-02	2.1006-02	5.5955-03
-15 1.0353	1.9993-01	1.7914-01	1.5296-01	1.2343-01	9.2795-02	6.3405-02	3.7549-02	1.7317-02	4.2317-03
-20 1.0642	1.9653-01	1.7269-01	1.4419-01	1.1338-01	8.2693-02	5.4496-02	3.0887-02	1.3487-02	3.2115-03
-25 1.1034	1.9289-01	1.6580-01	1.3483-01	1.0268-01	7.1969-02	4.5077-02	2.3877-02	9.4792-03	1.9508-03
-30 1.1547	1.8894-01	1.5831-01	1.2469-01	9.1114-02	6.0431-02	3.5005-02	1.6436-02	5.2605-02	6.3636-04
-35 1.2208	1.8457-01	1.5003-01	1.1349-01	7.8412-02	4.7849-02	2.4120-02	8.4849-03	8.1082-04	-7.2893-04
-40 1.3054	1.7962-01	1.4066-01	1.0089-01	6.4231-02	3.3948-02	1.2257-02	-3.5764-05	-3.8541-04	-2.1227-03
-45 1.4141	1.7388-01	1.2984-01	8.6433-02	4.8135-02	1.8417-02	-7.1605-04	-9.0906-03	-8.6284-03	-3.4778-03
-50 1.5548	1.6705-01	1.1703-01	6.9501-02	2.9603-02	9.7222-04	-1.4782-02	-1.8423-02	-1.3194-02	-4.6297-03
-55 1.7375	1.5876-01	1.0162-01	4.9460-02	8.2270-03	-1.8371-02	-2.9462-02	-2.7256-02	-1.6825-02	-5.2532-03
-60 1.9579	1.4914-01	8.3970-02	2.6987-02	-1.4998-02	-3.8376-02	-4.3435-02	-3.4436-02	-1.8800-02	-5.1358-03
-65 2.1194	1.4154-01	7.0325-02	9.5014-03	-3.3711-02	-5.5644-02	-5.7005-02	-4.3044-02	-2.2640-02	-5.9035-03
-70 2.1197	1.3979-01	6.7344-02	4.5190-03	-4.1998-02	-6.7968-02	-7.2493-02	-5.8743-02	-3.4270-02	-1.0380-02
-75 2.0701	1.4018-01	6.8240-02	4.4446-03	-4.5252-02	-7.6188-02	-8.5736-02	-7.4452-02	-4.7492-02	-1.6242-02
-80 2.0308	1.4063-01	6.9186-02	4.8282-03	-4.7079-02	-8.1618-02	-9.4978-02	-8.5776-02	-5.7257-02	-2.0635-02
-85 2.0076	1.4090-01	6.9749-02	5.0734-03	-4.8110-02	-8.4758-02	-1.0037-01	-9.2417-02	-6.2962-02	-2.3150-02
-90 2.0000	1.4099-01	6.9933-02	5.1550-03	-4.8445-02	-8.5786-02	-1.0215-01	-9.4598-02	-6.4827-02	-2.3962-02